LCD TV

www.philips.com/support

EN USER MANUAL

PHILIPS

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# 1 About this User Manual

This manual contains all information you will need to initially install and operate your new TV. Also read the help text which are being displayed at the bottom of the screen.

If this instruction manual does not give an answer or if 'Troubleshooting' does not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied Worldwide guarantee booklet.
Please have the Model and Product number (which you can find at the back or the bottom of your television set or on the packaging) ready, before calling the Philips customer support service.

Model: .....
Product No: .....

## 1.1 Digital Broadcasting

Next to analogue broadcast reception, your TV has a built-in TV tuner which receives, decodes and displays digital terrestrial signals.

Digital TV and radio channels are only available and reproduced:

- when Digital Video Broadcasting Terrestrial (DVB-T) is applicable in your local area;
- and if DVB-T signal is supported by your TV for the country you live in. See www.philips.com/support for the list of supported countries.

## 1.2 Analogue Broadcasting

When your area is not broadcasting digital terrestrial signals, the TV will only receive analogue channels.

When on a frequency where a DVB signal is broadcasted, the tuner will try to decode an analogue TV channel and hence will not show video.

# 2 Important

## 2.1 General

**Do not insert the power plug in a wall socket or hang the TV to the wall before all connections are made.**

- Place or hang the TV wherever you want, but make sure that air can circulate freely through the ventilation slots.
- Do not install the TV in a confined space such as a book case or a similar unit.
- To prevent any fire hazards, no naked flame sources, such as lighted candles, should be placed near the TV.
- Avoid heat, direct sunlight and exposure to rain or water.

## 2.2 Care of the screen

- Do not touch, push or rub or strike the screen with anything hard as this may scratch or damage the screen permanently.
- Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen).
- Unplug the TV before cleaning the screen.
- When the surface becomes dusty wipe gently with absorbent cotton or other soft material like chamois soaks.
- Do not remove the protective sheet until you have completed the stand/wall mounting and connections. Please handle with care.
- Use only soft cloth provided to clean the glossy black front of the TV.
- Wipe off water droplets as soon as possible. Their long time contact with the screen causes deformations and colour fading.

## 2.3 Stationary images on the TV

A characteristic of LCD and Plasma Panels is that displaying the same image for a long time can cause a permanent after-image to remain on the screen. This is called phosphor burn in. Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Examples of stationary images (this is not an all-inclusive list, you may encounter others in your viewing):

- TV and DVD menus: listings of DVD disk content;
- Black bars: when black bars appear at the left and right side of the screen, it is recommended to change to a picture format so that the picture fills the entire screen;
- TV channel logo: present a problem if they are bright and stationary. Moving or low-contrast graphics are less likely to cause uneven aging of the screen;
- Stock market stickers: presented at the bottom of the TV screen;
- Shopping channel logos and pricing displays: bright and shown constantly or repeatedly in the same location on the TV screen. Examples of still pictures also include logos, computer images, time display, teletext and images displayed in 4:3 mode, static images or characters, etc.

**Tip**

Reduce contrast and brightness when viewing.

## 2.4 Electric, Magnetic and Electromagnetic Fields ("EMF")

- Philips Royal Electronics manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electro magnetic signals.
- One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
- Philips is committed to develop, produce and market products that cause no adverse health effects.
- Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

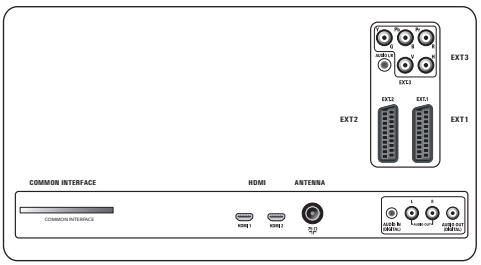
# 3 Before you start

**Warning**

Do not insert the mains cord into the mains at the bottom of the TV and in a wall socket or hang the TV on the wall before all connections are made.

Before you switch on your TV, connect all your peripheral equipment. See 'To make video and audio connections', p. 43.

## 3.1 Overview of the rear connector panel




There is a wide range of audio and video equipment that can be connected to your TV. See 'To make video and audio connections', p. 43.
**EXT1** can handle CVBS, RGB and Audio L/R;
**EXT2** can handle CVBS, S-VIDEO, RGB and Audio L/R;
**EXT3** can handle YPbPr, RGB H/V and Audio L/R;
**HDMI 1** and **2.**
**Supported video formats:** 480i, 480p, 576i, 576p, 720p, 1080i.

**Warning**

Disconnect all power sources before making any connections.

**Tip**

It is preferable to connect peripherals with RGB output to **EXT1** or **EXT2** as RGB provides a better picture quality.

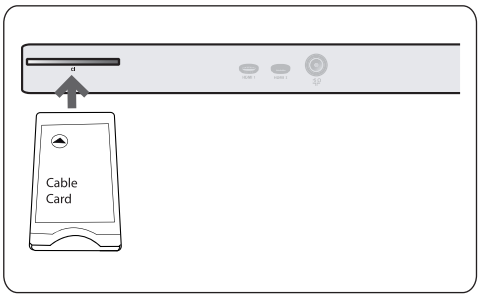
## 3.2 Common Interface Slot

**Warning**

Switch off your TV before any module is inserted in the Common Interface slot.

**Note**

This functionality is only available in certain countries.




To receive scrambled DTV signals you will need a CA (Conditional Access) module and a Smart card provided by the service provider.

- A CA module can enable additional services, for example Pay TV.
  Contact your Common Interface service provider to get more information about these modules.
- Although CA module types may vary dependent on the manufacturer, each one of the CA modules supports a certain kind of encryption system.
  Your TV supports CA modules to work with the DVB-T standard.
  Note that a smart card may only be valid for a single broadcast channel.
- CA modules and smart cards are neither supplied nor optional accessories from Philips. The CA module is responsible for the messages and texts on screen. In case of failure or strange behaviour, you must call your CI service broadcaster.

**Insert a CA module**

1 Insert the specified Conditional Access module into the Common Interface slot as far as it will go. It may take a few minutes before the CA module is activated and service information is downloaded.

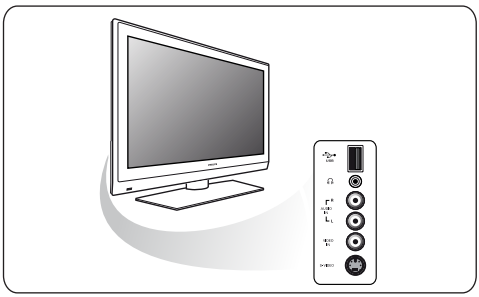
**Warning**

When you connect the CA module incorrectly, it may damage the card and the TV. After inserting a card, leave it in the slot permanently. Do not remove it from the slot unless asked to do so. For example, your card has to be in the slot when your CI service broadcaster wants to download new information to the smart card. Once the CA module is removed, your TV will no longer decode scrambled digital DVB-T channels.

To access common interface applications, see TV menu, Adjust feature menu settings, Common Interface, p. 24.

## 3.3 Overview of the side connector panel

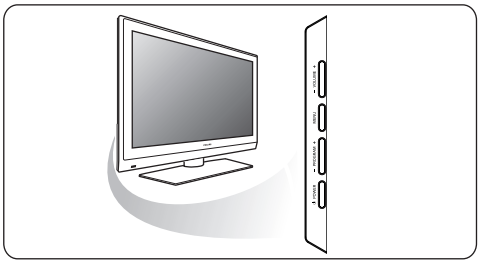
- To connect a camera, camcorder or game, see To make video and audio connections, p. 43.
- To connect a headphone, see To make video and audio connections, p. 43.
- To connect a USB device, see 'Multimedia browser', p. 37.



## 3.4 Keys at the side of the TV

In case your remote control is lost or broken, apart from channel selection and volume adjustment, you can still change some of the basic settings with the keys at the side of your TV.

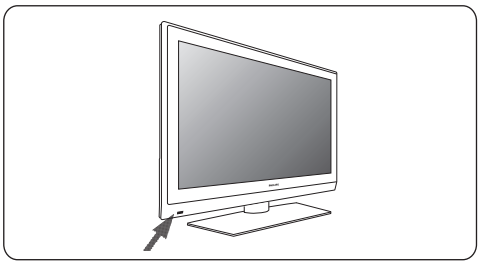
- Press the power switch ⏻ to switch the TV on or off.
  The **MENU** key can be used to call up the TV menu without the remote control.
- Use:
  - the **VOLUME -** and + keys and the **PROGRAM -** and **+** keys to select menu items;
  - the **MENU** key to confirm your selection.



## 3.5 Light indicator on the TV

The light indicator shows the status of the TV.

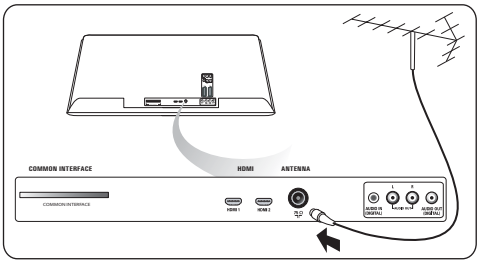
- Red means TV is on "standby"
- Blue means TV is "switched on"



# 4 Getting started

## 4.1 Connect the antenna

1 Insert the aerial plug firmly into the aerial socket ⊓ at the bottom of the TV.

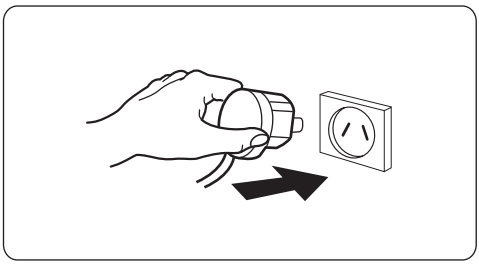



## 4.2 Connect the mains

1 Insert the mains cord supplied into the mains at the bottom of the TV and in the wall socket.

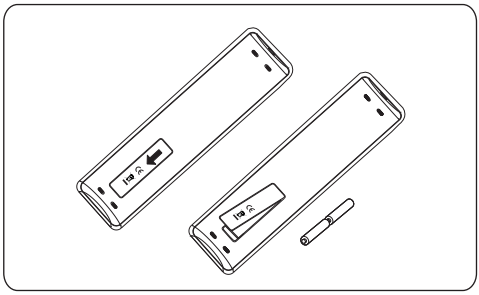
**Warning**

Verify that the mains supply voltage corresponds to the voltage printed on the sticker at the rear of the TV.



## 4.3 Remote control

1 Insert the 2 batteries supplied.
Be sure the (+) and (-) ends of the batteries line up correctly (markings are printed in the case)



For most keys pressing a key once will activate the function. Pressing a second time will undo the action.

## 4.4 Switch on the TV

1 Press the power switch ⏻ at the side of the TV.
An indicator on the front of the TV lights up and the screen comes on.

2 If the TV is in standby mode, press the -P+ keys or the ⏻ key on the remote control.

## 4.5 First time installation

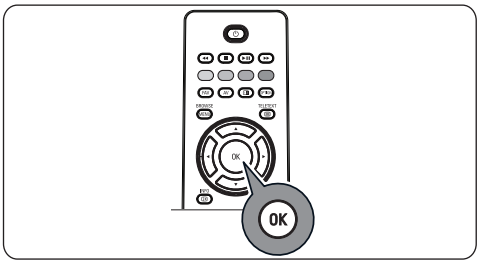
The installation procedure consists of a series of screens that will guide you through the installation of your TV.
Follow the instructions on the screen.

**Note**

If the TV has already been installed before and/ or you want to change the First time installation settings, proceed with Use of the 'TV menu settings', p. 15.

**Step 1: select your on-screen language**
After the Welcome screen you are asked to select a language of the TV's on-screen menus. The text of the header and the info on screen continuously change language. Also the digital audio and subtitle language will be set to the selected menu language.

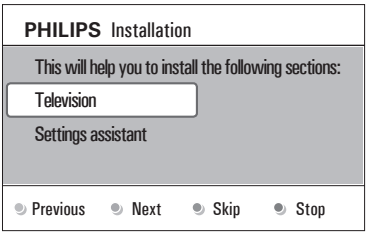
1 Press the ▲ or ▼ key to highlight your language.
2 Press the **OK** key on the remote control.
3 Follow the instructions on the screen to proceed.

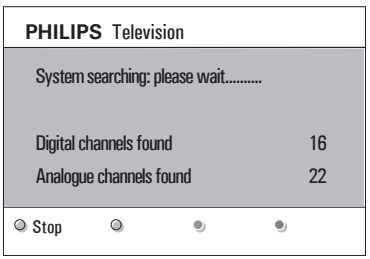



**Step 2: complete the initial TV installation procedure**
1 Press the green colour key on your remote control when **Television** is highlighted.
2 Select the country where you are now located.

**Notes**
- if you select a wrong country, the channel numbering will not be according to the standard for your country.
- in case the country selected is not DVB-T supported by your TV, digital related menu-items will not be accessible.

3 Press the green colour key on your remote control to start the Automatic channel installation.




**Notes**
All available digital TV and radio channels and analogue TV channels are searched for and stored automatically. This will take a few minutes. When the search is complete, the menu will indicate the number of digital and analogue channels found.

**Notes**

- reception of digital terrestrial TV channels is applicable dependent on the country selected;
- if you choose to install the channels at a later time, select the Automatic installation in the TV menu, Installation, Channels to scan available channels.

4 Press the red colour key again when the search is completed.

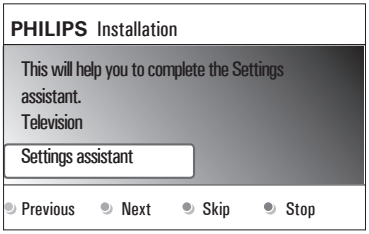
**Step 3: Settings assistant: select your TV settings**

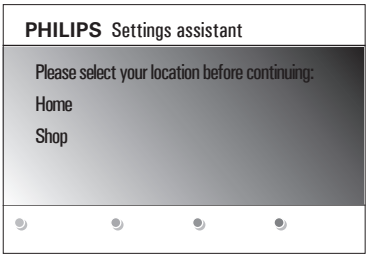
By means of several split screens/full screens you are prompted to select your preferred picture and sound to finally arrive at a complete setting which satisfies you.

1 Press the green colour key on your remote control to enter the **Settings assistant** menu.
2 Select your Location with the ▲ or ▼key.
If you choose **Shop** it will skip the Settings assistant.
The TV parameters for Picture and Sound will then be set to predefined fixed settings.
3 Press the green colour key again to proceed.

**Notes**

If you choose **Home** it will display the Settings assistant.
Use the ◀ or ▶ key to each time select your preferred screen.




4 Press the green colour key to confirm your selection each time and to jump to the next screen.
The items will be presented sequentially.
In the header it is mentioned how many screens have been completed and how many screens there are in total.

The **Settings assistant** will step sequentially through the following settings: Picture and Sound.

5 Press the green colour key again to store all the settings and to return to the TV installation menu.

**Note**

When you skip or stop the Settings Assistant, then the standard settings Philips selected for you will be chosen.

6 Press the red colour key again to finish the First time installation procedure and to display the first stored TV channel.

**Note**

Any time you can change or reset your settings or adjust individual settings for Picture and Sound in the 'TV settings' menu. See p. 15, 'Use of the TV menu settings'.
To control the settings of special TV functions, features and accessory equipment, see p. 21, 'Adjust feature menu settings'.

### 4.6 How to navigate through the menus

**Introduction**

A lot of guiding instructions, help texts and messages will be display on your TV when you use the menus or when you try to execute an action.

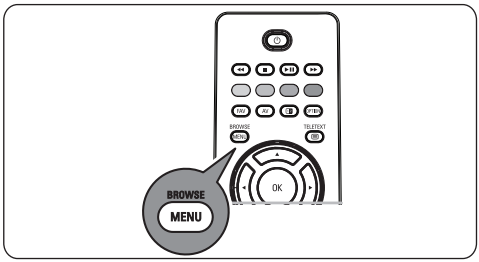
- Read the help texts which are being displayed on the specific item highlighted.
- The colour keys at the bottom of the screen refer to the different actions which may be executed.

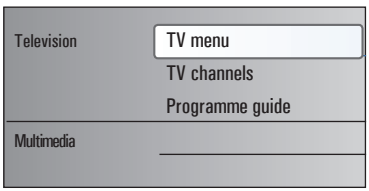
**1** Press the corresponding colour key on the remote control to perform the required or desired action.

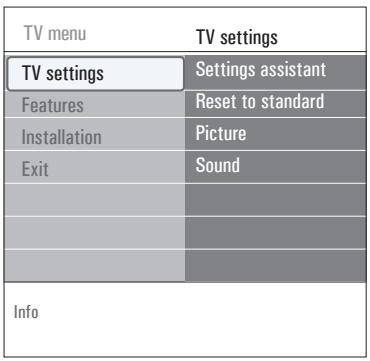
**Note**

Digital related menu items will only be accessible in case of digital TV broadcasting.

**1** Press the BROWSE MENU key on the remote control. The main menu appears on the screen.
- **TV menu** allows you to access the TV menu. See below.
- **TV channels** allows you to access the TV channel list and to create up to four favourite lists with your preferred TV channels and digital radio stations. See Create your favourite channel list, p. 33.
- **Programme guide** allows you to access detailed information about individual digital TV programmes. According to the type of Electronic Programme Guide, it also allows you to access the table of scheduled Digital TV programmes and easily select and tune to a desired programme.
  See EPG, Electronic Programme Guide, p. 35.
- **Multimedia** allows you to access the Multimedia browser application. It lets you display your personal multimedia files.
  Multimedia is only present when a USB device is connected.
  See Multimedia browser, p. 37.

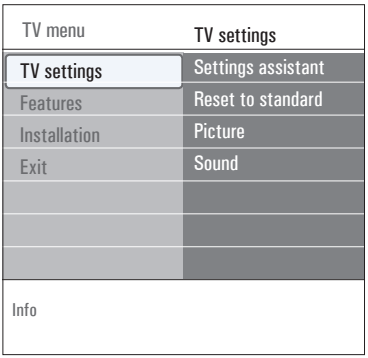



**2** Use the ▲ or ▼ key to highlight and select a menu item.

**3** Use the ▶ key to enter the highlighted menu item.
The right panel shows the content of the highlighted menu item.




**4** Use the ▲ or ▼ key to select a menu item.
- **TV settings** allows you to adjust your preferred picture and sound settings
- **Features** allows you to control the settings of special TV features
- **Installation** allows you
  - to select your language preferences;
  - to search for and store your TV channels;
  - to set or adjust various special functions;
  - to select connected peripheral equipment;
  - to define one or more channel numbers as decoder channel numbers;
  - to reset your picture and sound settings to the factory standard settings;
  - to upgrade your TV software

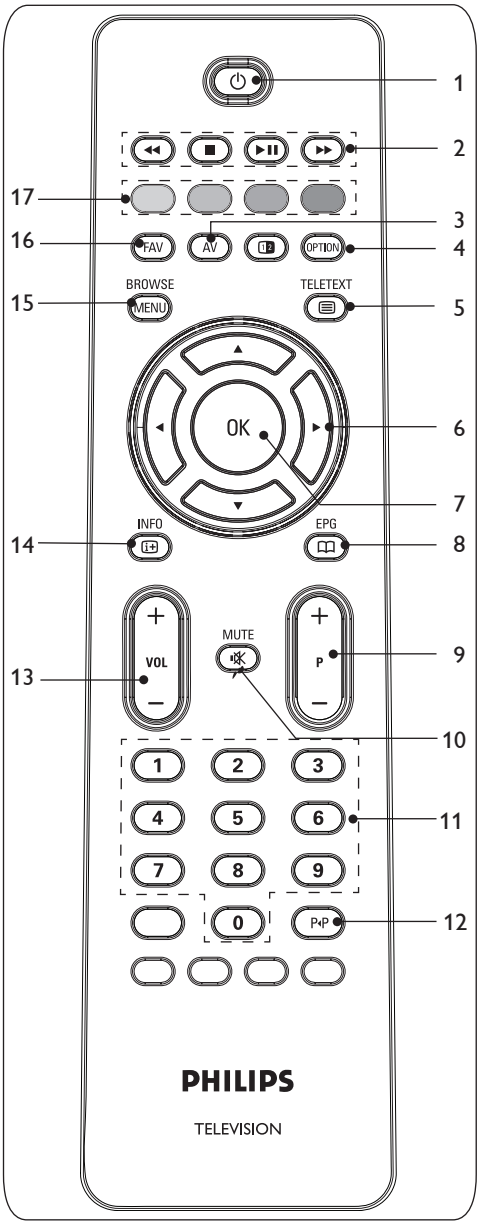
**5** Press the ▶ key to enter the highlighted menu item.
The content of the right panel is moved to the left panel and the right panel now shows the content of the newly highlighted item in the left panel.

**Note**

In some cases it is important that the picture can be watched while you adjust the settings. This means that when the highlight is on the right side panel, the other menu items hide away. When the ◀ key is pressed, the hidden menu items reappear and the highlight moves to the left panel.

**6** Press the BROWSE (MENU) key to exit the main menu.

# 5 Use of the remote control




**1** ⏻ **Standby**

Press to switch the TV from or to standby mode.

When switched to standby, a red indicator on the TV lights up.

**Note**

The TV is never powered off completely unless it is physically unplugged.

**2** ◀◀ ■ ▶❚❚ ▶▶

See Multimedia browser functional keys, p. 37.

**3** **AV** Audio Video

To display source list to select TV or other equipment. Use the ▲ or ▼ to select source and the **OK** key to confirm selection.

**4** **OPTION**

- To open and close the Quick access menu which contains a few frequently used options, like Picture format.
- When in teletext, press repeatedly to enlarge the teletext page display. See Teletext, p. 40.

**5** **Teletext On/Off**

Press to switch teletext on. See Teletext, p. 40. Only for UK: Digital text/ Interactive services.

**Note**

Not all channels transmit interactive television applications at all times.

**6** **Cursor keys**

Press the cursor keys ▲▼◀▶ to navigate through the menus.

**7** **OK**

- To activate a setting
- Starts playing content in the Multimedia Browser application.

**8** **EPG**

To open and close the Electronic Programme Guide.

See EPG (Electronic Programme Guide), p. 35.

**9 +P- Channel selection**

- to browse through the TV channels and sources stored and marked in the Favourite channels list;
- to select a page in Teletext mode;
- to quickly browse through the lists in the menus;
- to switch on the TV from standby mode.

**10 Mute key**

To turn off or on sound.

**11 0/9 Digit keys**

To select a TV channel between 0 and 999.

**12 Previous channel**

Press to alternate between the currently viewed and the previously viewed TV channel.

**13 VOL +/-**

Press + or - to turn on sound louder or softer.

**14 INFO**

Press to display (when available) information about the selected TV channel and programme.

**15 BROWSE/MENU**

To open and close the main menu. See How to navigate through the menus, p. 10.

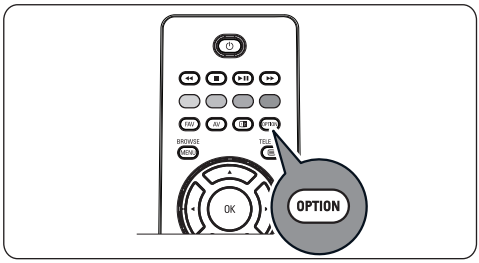
**16 FAV**

To display the channels list. You can create up to four favourite lists.

**17 Colour keys**

- When functions are attached to the colour keys, the colour keys are shown on screen.
- To select a page in Teletext mode.

## 5.1 Use of the option key




The OPTION key allows you to display the Quick access menu which will give you direct access to some features and menu options.

1. Press the OPTION key.
   The Quick access menu appears.
2. Press the ▲ or ▼ key to select a menu item.
3. Press the **OK** key to jump to the selected menu item in the TV menu. (Except for the Clock option).
4. Use the ▲ or ▼, ◀ or ▶ key to make a selection.
5. Press the OPTION key to exit.

**Note**

Digital related menu items will only be accessible in case of digital TV broadcasting.

**Digital audio language:**

See 'Adjust sound menu settings', p. 19.

**Digital subtitle language:**

See 'Adjust feature menu settings', p. 21.

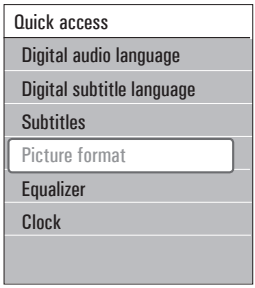
**Subtitles:**

See 'Adjust feature menu settings', p. 21.

**Picture format:**
See Use of the TV menu settings, Adjust picture menu settings, p. 16.

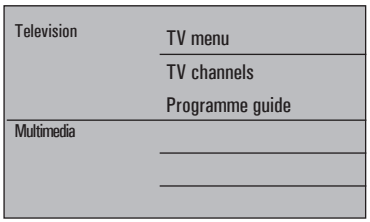
**Equalizer:**
See Use of the TV menu settings, Adjust sound menu settings, p. 19.

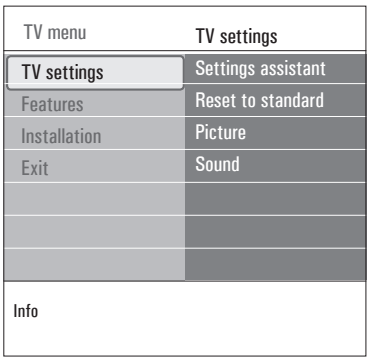
**Clock:**
Select to call up or remove the clock display on the screen.



# 6 Use of the TV menu settings

The TV menu allows you to access and change settings and preferences in case you want to change the First time installation settings and/or you want to control the settings of special TV functions, features and peripheral equipment.




**Adjust viewing and listening settings**

1. Press the BROWSE (MENU) key on the remote control.
   The main menu appears on the screen.
2. Select **TV menu** and press the ▶ key.
   The **TV menu** appears on the screen.
3. Select **TV settings** and press the ▶ key.
   The **TV settings** menu moved to the left.
4. Press the BROWSE (MENU) key to exit the menu.
   To make it easier to change the settings of the TV, there are 3 ways of doing it.

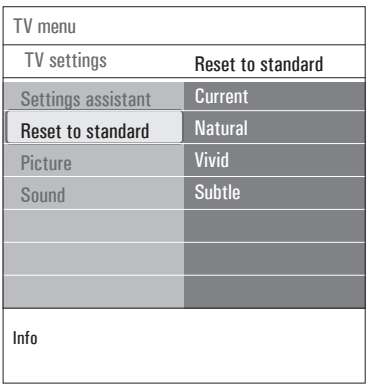
**A. Change settings in an easy-to-use manner with the Settings assistant**

Each time you've made a selection, press the green key to confirm your selection.

1. Select **Settings assistant** and press the ▶ key.
   By means of several split screens/full screens you are prompted to select your preferred picture and sound settings to finally arrive at a complete setting which satisfies you.
   See 'First time installation', Step 3: Settings assistant: select your TV settings, p. 9.
2. Press the green colour key to return to the TV menu again.

**B. Use of the Standard settings (if present)**

This allows you to reset your settings for viewing and listening to predefined factory settings.



1 Select **Reset to standard** and press the ▶ key.
- A menu appears which allows you to select one of the standard settings for viewing and listening.
- **Current** shows your current settings for viewing and listening.
- If you select **Natural**, it allows you to set your picture and sound settings to the recommended standard values. In most cases this will give the best balanced viewing experience.
- If you select **Vivid**, it allows you to set your picture and sound settings to rich values, making use of the TV capabilities to its full extend.
- If you select **Subtle**, it allows you to set your picture and sound settings to the purest representation of the original source content.

2 Press the green colour key to store the selected setting.

### C. Individual settings for picture and sound

1 Select **Picture** and **Sound** press the ▶ key.
- A menu appears which allows you to fine tune the picture and sound settings.
- To adjust the Picture settings, see 'Adjust picture menu settings', p. 16.
- To adjust the Sound settings, see 'Adjust sound menu settings', p. 19.

## 6.1 Adjust picture menu settings

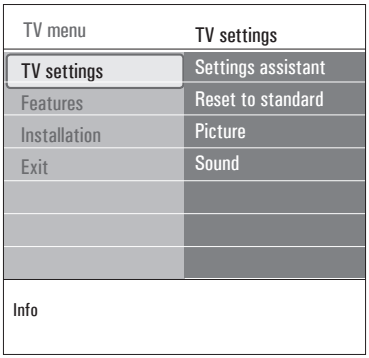
The picture menu contains the settings that affect the quality of the picture.

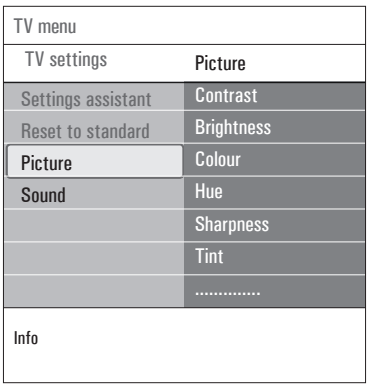
1 Press the BROWSE (MENU) key on the remote control. The main menu appears.

2 Select **TV menu** and press the ▶ key. The **TV menu** moved to the left.

3 Select **TV settings** and press the ▶ key. The **TV settings** menu moved to the left panel.

4 Select **Picture** and press the ▶ key. The Picture menu moved to the left panel.




5 Press the ▲ or ▼ key to select the Picture menu items.

6 Press the ▶ key to enter the selected Picture menu item.

**Note**

All digital related menu items will only be accessible in case of digital TV broadcasting.

7 Press the ▲ or ▼, ◀ or ▶ key to adjust the settings.

8 Press the ◀ key to return to the Picture menu.

**Contrast**
Adjusts the intensity of bright parts in the picture but keep the dark parts unchanged.

**Brightness**
Adjusts the light output of the complete picture, which will mainly affect the darker areas of the picture.

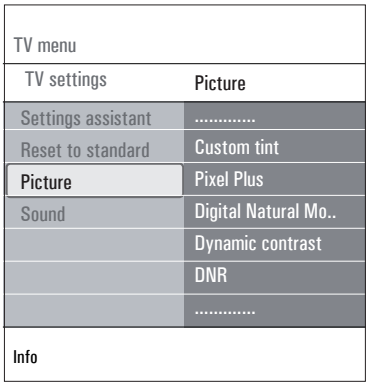
**Colour**
Adjusts the saturation level of the colours to suit your personal preference.

**Hue**
Compensates for the colour variations in NTSC encoded transmissions.

**Sharpness**
Adjusts the sharpness of fine details in the picture.

**Tint**
Increases or decreases **Warm** (red) and **Cool** (blue) colours to suit personal preferences.

- Select
  **Cool** to give the white colours a blue.
  **Normal** to give the white colours a neutral.
  **Warm** to give the white colours a red tint.
  **Custom** to make a customised setting in the Custom tint menu item.




**Custom tint** (only when Tint is set to Custom)
Fine tunes the white point (**WP**) and black level (**BL**) of the picture.

1 Select **Custom tint** and press the ▶ key.
2 Use the ▲ or ▼, ◀ or ▶ keys to select and adjust the settings of:
  **R-WP**: allows you to customise the colour tint by adjusting the red whitepoint of the picture.
  **G-WP**: allows you to customise the colour tint by adjusting the green whitepoint of the picture.
  **B-WP**: allows you to customise the colour tint by adjusting the blue whitepoint of the picture.
  **R-BL**: allows you to customise the colour tint by adjusting the red blacklevel of the picture.
  **G-BL**: allows you to customise the colour tint by adjusting the green blacklevel of the picture.
3 Press the colour keys to reset to the predefined settings.
4 Press the ◀ key to return to the Picture menu.

**Pixel Plus**
Pixel Plus is the most ideal setting, as it fully processes the image to make every single pixel the best it can be, improving contrast, sharpness, picture depth, and colour reproduction and brilliance from every source, including High Definition.

1 Select **On** or **Off** to activate/de-activate Pixel Plus.

**Digital Natural Motion**
Reduces the field and line flicker and reproduces smooth movement especially in movies.

1 Select **Off, Minimum** or **Maximum** in order to really see the difference in picture quality.

**Dynamic contrast**
Automatically makes the contrast in the darker and the brighter picture areas more noticeable as the image on the screen changes.

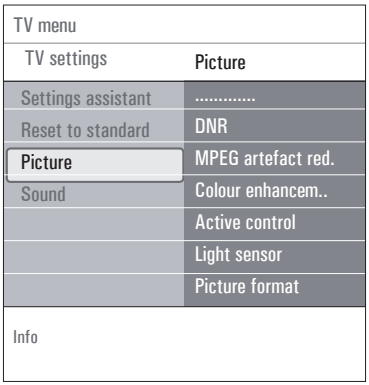
1 Normally select **Medium**. It may be preferred to select **Minimum, Maximum** or **Off**.

**DNR (Dynamic Noise Reduction)**
DNR automatically filters out and reduces the image noise. This improves picture quality when receiving weak signals.

1 Select **Off, Minimum, Medium** or **Maximum** according to the image noise in the picture.

**MPEG artefact reduction**
Smoothens the transitions on digital content.

1 Select **On** or **Off**.




**Colour enhancement**
Automatically controls green enhancement and blue stretch. It makes the colours more vivid.

1 Select **Off, Minimum, Medium** or **Maximum**.

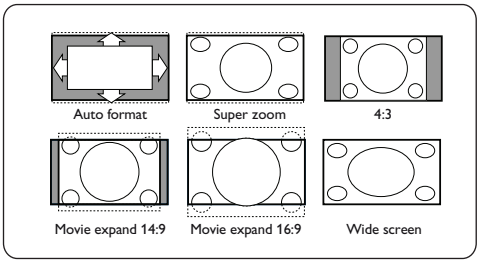
**Active control**
The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.

1 Select **On** or **Off** to activate/de-activate Active control.

**Light sensor**
Light sensor **On** automatically adjusts the picture settings for best viewing dependent on the lighting conditions in the room.

1 Select **On** or **Off**.

**Picture format**
This allows you to adjust the size of the picture dependant on the broadcasted format and your preferred setting.




**Tip**

This function is also accessible via the OPTION key on the remote control.

Choose among the following picture formats: Auto format, Super zoom, 4:3, Movie Expand 14:9, Movie Expand 16:9 or Wide screen.

**Auto format** makes the picture fill the screen as much as possible.
In case of subtitles in the bottom black bar, Auto format makes the subtitles visible.
In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.
**Super zoom** removes the black bars on the sides of 4:3 programmes with minimal distortion.
When in **Movie Expand 14:9, Movie Expand 16:9** or **Super zoom** screen format, you can make subtitles visible with the ▲ or ▼ key.

**Note**

With HD sources not all picture formats will be available.

## 6.2 Adjust sound menu settings

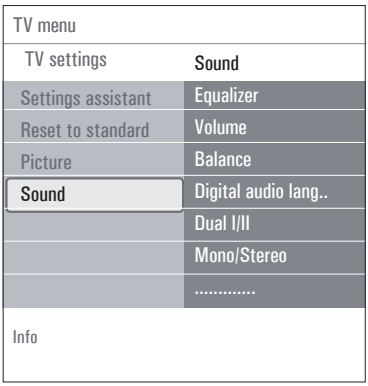
The sound menu contains the settings that affect the quality of the sound.

1. Press the BROWSE MENU key on the remote control. The main menu appears.
2. Select **TV menu** and press the ▶ key. The TV Menu is moved to the left.
3. Select **TV settings** and press the ▶ key. The TV settings menu is moved to the left panel.
4. Select **Sound** and press the ▶ key. The Sound menu is moved to the left panel.
5. Use the ▲ or ▼ key to select the Sound menu items.
6. Press the ▶ key to enter the selected Sound menu item.

**Note**

Dependent on the input signal, one or more menu items may not be selectable.

7. Use the ▲ or ▼, ◀ or ▶ keys to adjust the settings.
8. Press the ◀ key to return to the Sound menu.




Manufactured under license from Dolby Laboratories. 'Dolby' 'Pro Logic' and the double-D symbol are trademarks of Dolby Laboratories.

**Equalizer**
Allows you to change the frequency response of the sound to match your personal taste.

**Tip**
This function is also accessible via the OPTION key on the remote control.

**Volume**
Allows you to adjust the sound output level.

**Balance**
Allows you to adjust the output of the right and left speakers to obtain the best stereo reproduction for your listening position.

**Digital audio language** (only with Digital TV broadcasting)
Allows you to select an audio language out of the list of the available broadcasted languages for the current digital programme.

**Note**
If there is more than one variant for an audio language, then select one of the variants.
To permanently change the audio language, use the Language menu in the Installation menu.

**Tip**
This function is also accessible via the OPTION key on the remote control.

**Dual I/II**
Allows you to select, per channel, Dual I or II, when dual sound transmission is available.

**Mono/Stereo**
Allows you to select, per TV channel, **Mono** or **Stereo** sound when stereo broadcasts are available.

**Surround mode**
Allows you to select the modes for more spatial or surround sound reproduction dependent on the broadcasted signals or signals from external inputs received.

**Headphone volume**
Allows you to control the level of sound through the headphones.

**AVL (Automatic Volume Leveler)**
Automatically reduces the volume differences between channels and programmes, providing a more constant overall level. This will also reduce the dynamics of sound.

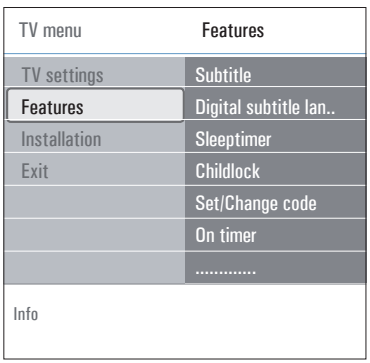
**Delta volume**
Allows you to correct for any permanent volume differences between TV channels or external sources.

**Auto surround**
When switched On, this allows the TV to automatically switch to the best surround sound mode the broadcaster transmits.

### 6.3 Adjust feature menu settings

The Features menu allows you to control the settings of special TV functions, features and accessory equipments.

1 Press the BROWSE (MENU) key on the remote control. The main menu appears.
2 Select **TV menu** and press the ▶ key. The TV Menu is moved to the left.
3 Select **Features** and press the ▶ key. The Features menu is moved to the left panel.
4 Press the ▲ or ▼ key to select the Features menu items.
5 Press the ▶ key to enter the selected Features menu item.
6 Press the ▲ or ▼, ◀ or ▶ to adjust the settings.
7 Press the ◀ key to return to the Features menu.




**Subtitle**

This displays Teletext and DVB-T subtitles from the selected TV channel. It can be permanently displayed, or only when mute is active. The teletext subtitle page of analogue channels must be stored for each TV channel.

1 Switch on teletext and select the proper subtitle page from the index.
2 Switch off teletext.
3 Select
   - **Subtitle On** to display the subtitles on the selected TV channels.
   - **On during mute** to automatically display the subtitles only when the sound has been muted with the 🔇 key on the remote control.

**Tip**

This function is also accessible via the OPTION key on the remote control.

**Digital subtitle language** (only with Digital TV broadcasting)

This allows you to temporarily select your preferred subtitle language out of the list of the broadcasted languages for the current programme.

**Note**

To permanently change the subtitle languages, use the **Language** menu in the **Installation** menu.

1 Use the ▲ or ▼ key to temporarily overrule your permanent language selection and confirm with the **OK** key.

**Tip**

This function is also accessible via the OPTION key on the remote control.

**Sleeptimer**
This sets a time period after which the TV automatically switches to standby.

1. Select **Sleeptimer**.
2. Press the ▶ key.
3. Select a value with the ▲ or ▼ key.
   The list will have values from 0 to 180 minutes. When 0 is selected, the sleeptimer is switched off.

**Note**
You can always switch off your TV earlier or select another time set.

**Childlock**
With a 4-digit code, you are able to lock TV channels and external sources to prevent children from watching certain programmes.

1. Select **Childlock**.
2. Press the ▶ key to enter the Childlock menu.
3. Enter your 4-digit code.

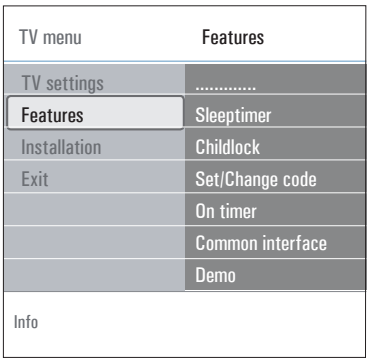
**Note**
You have to re-enter your code each time you enter the Childlock menu.

4. Select one of the menu items of the Childlock menu and press the ▶ key:
   **Lock** to lock all channels and externals:
   **Custom lock** to lock a specific channel or channels or to lock all the channels from a certain time.
   - **Lock after** to lock all programmes from a certain time onwards.
     1. Press the ▶ key twice.
     2. Select **On** to set the lock.
     3. Press the ◀ key.
     4. Select **Time** and press the ▶ key.
     5. Enter the time with the ▲ or ▼ and ▶ key.
   - **Channel lock** to lock a certain TV or external channel.
     1. Press the **OK** key to activate deactivate.
   - **Parental rating** to set an age rating to a digital programme if the programme is parental rated. The ratings applied are according the selected country in the initial installation.
     1. Press the ▶ key and select an age rating with the ▲ or ▼ key.

**Unlock** to undo all locks you have set.

**Important:** you have forgotten your code !

1. Select **Change code** and press the ▶ key.
2. Enter the overriding code 8-8-8-8.
3. Enter a new personal 4-digit code.
4. Confirm your new entered code.
   The previous code is erased and the new code is stored.



### Set code/Change code

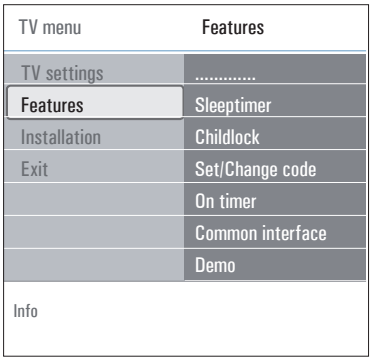
This allows you to set or change the personal 4-digit access code that is used in the different lock functions of the TV.

1. Select **Set** or **Change code**.
   - If no PIN-code exists yet, the menu item is set to **Set code**. Follow the instructions on screen.
   - If a PIN-code has previously been entered, the menu item is set to **Change code**. Follow the instructions on screen.
2. Enter your code with the digit keys. All number combinations from 0000 to 9999 are valid numbers.
   - The Features menu reappears with a message confirming that your PIN-code has been created or changed.

### On timer

From standby, this automatically switches the TV to the specified channel number at a specified time.

1. Select **On timer**.
2. Press the ▶ key to enter the On timer menu.
3. Select **Timer** and press the ▶ key.
4. Select **On**.
5. Select **Channel** and then the TV channel you want your TV to switch to on a selected time and day
6. Select **Day** and then a day of the week or select **Daily**.
7. Select **Time** and enter the time with the digit keys or with the ▲ or ▼ key.
8. Press the **OK** key to activate.
9. Press the ◀ key to return to the Features menu or press the BROWSE MENU key to switch off the menu.




**Note**

From now on, **every week**, your TV will automatically switch to the selected channel, on the selected day, at the selected time, until the On timer function is switched off again.

**Note**

Only one On timer can be set.

## Common interface

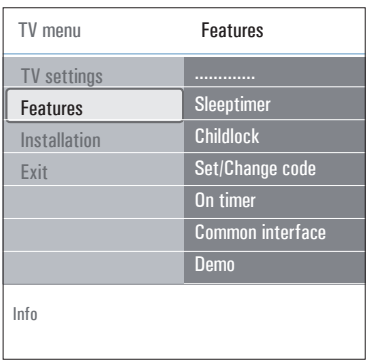
**Note**

This functionality is only available in certain countries.

This allows you to access common interface applications defined by the service provider of the Common Interface (CI) module.
The Common Interface (CI) module can contain one or more applications, which are used to communicate with the CI service provider and provide some additional facilities to the user.
See Use the Common Interface slot, p. 5.

**Note**

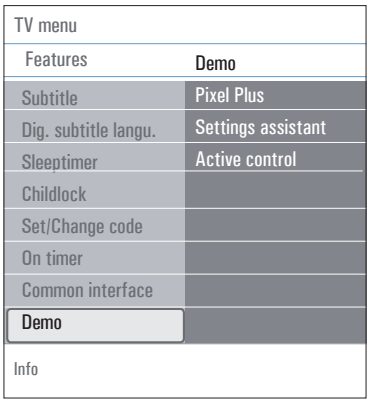
This menu item and the common interface applications are only selectable when an authenticated Common Interface card is present and some Common Interface card user interface sessions are listed.
The CI service provider is responsible for the messages and texts on screen. In case of failure or strange behaviour, you must call your CI service provider.




## Demo

This allows you to get an idea of the features that are part of the television.

1. Select Demo.
2. Press the ▶ key.
3. Select a desired demo.
4. Press the **OK** key to start the demo. The selected demo is played once.
5. Press the red colour key to stop the demo and to return to the demo menu.
6. Press the red colour key to exit the demo menu.



## 6.4 Search for and store TV channels

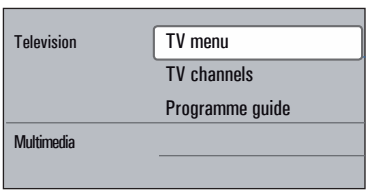
### Tip

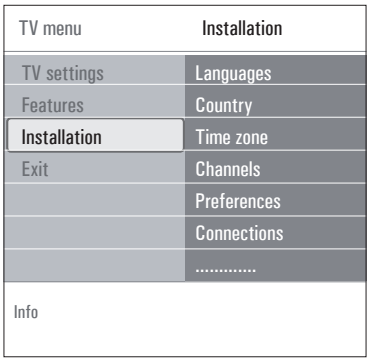
You will need this chapter only if you want to change the installation settings.

**Installation menu**

This menu will adjust settings related to the installation of the TV channels, language and country and to the initial installation of your TV.

1. Press the BROWSE (MENU) key on the remote control. The main menu appears.
2. Select **TV menu** and press the ▶ key. The TV Menu is moved to the left.
3. Select **Installation** and press the ▶ key. The Installation menu is moved to the left panel.
4. Press the ▲ or ▼ key to select the Installation menu items.
5. Press the ▶ key to enter the selected Installation menu item.
6. Press the ▲ or ▼, ◀ or ▶ to make a selection.
7. Press the **OK** key to activate or to confirm.
8. Press the ◀ key to return to the Installation menu or press the BROWSE (MENU) key to switch off the menu.




**Select your language preferences**

This menu allows you to select your preferred language for menu, audio and subtitle.

**Menu language**

This allows you to select your menu language out of the list of the available languages.

**Preferred audio language** (only with Digital TV broadcasting)

This allows you to select your audio language preference in case several languages are broadcasted.

**Preferred subtitle language** (only with Digital TV broadcasting)

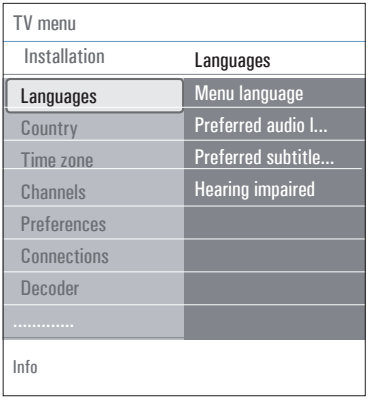
This allows you to select your subtitle language preference in case several languages are broadcasted.

**Hearing impaired** (only with Digital TV broadcasting)

This allows you to select the hearing impaired audio or subtitle language.

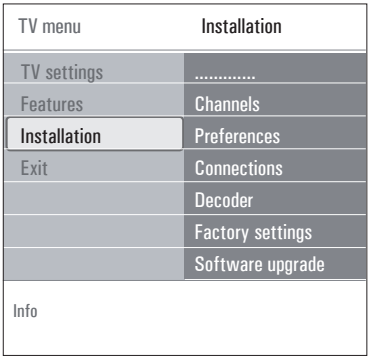
When set to **On**, the Hearing impaired version of your preferred audio or subtitle language will, if available, be reproduced.

When set to **Off**, the normal audio and subtitle language behaviour will be applicable.




**Select your country**
This allows you to select the country where you are now located.

**Notes**
- if you select a wrong country, the channel numbering will not be according to the standard for your country;
- in case the country selected is not DVB-T supported by your TV, digital related menu-items will not be accessible.

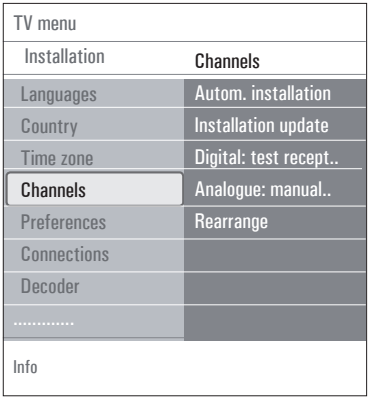



**Select the time zone** (only with digital TV broadcasting)
Only applicable for certain countries and dependent on the selected country.

This allows you to select your local time zone so that the clock display shows the correct time.

**Store TV and radio channels**
After language and country are set correctly, you can now search for and store the TV channels.

1 Select **Channels** in the TV Installation menu.




**Automatic installation**
The TV will scan the entire frequency spectrum based on the selected country.
- All available digital and analogue TV and digital radio channels are searched for and stored automatically.
  This will take a few minutes.
- When the search is complete, the menu will indicate the number of digital and analogue channels found.

**Installation update** (only with Digital TV broadcasting)
This allows you to automatically tune to and update all available digital channels without altering the sorting of existing channels. For example, the name of the channel is not altered.

**Notes**
- this will not reinstall uninstalled channels;
- digital channels that are not encountered any longer will be removed;
- new channels found will not be added to any favourite list;
- already installed channels will not be renumbered.
- installation update happens automatically when your TV is in standby mode.

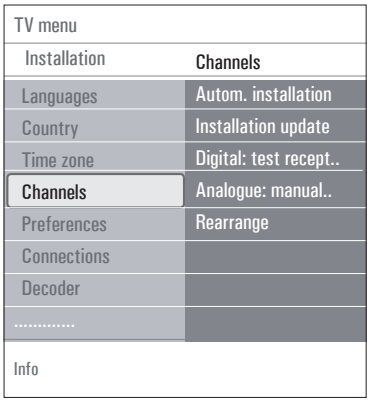
**Digital: test reception** (only with Digital TV broadcasting)
This allows you to see the quality and the strength of the signal reception for a digital frequency. This enables you to find the antenna position that gives the best reception.

1 Select **Digital: test reception** and press the ▶ key.
   - You obtain an indication of the actual channel frequency, the network name, the signal quality and strength.
   - If the signal quality and strength is poor, you can try repositioning the aerial.

**Tip**
It is however advisable to contact a specialised aerial installer in order to achieve the best results.
You can also directly enter the frequency of the digital channels you want to test.

**Analogue: manual installation**
This gives you the possibility to manually install (tuning-in channel by channel) analogue channels. Manual installation will not find nor store any DVB-T (digital) channels.

1 Select **Analogue: manual installation** and press the ▶ key.




2 Select **System**.
3 Select your country or part of the world where you are now located.
4 Select **Search** and press the ▶ key.
5 Select the red or green colour key to proceed.

**Tip**
If you know the frequency, enter the 3 digits of the frequency with the digit keys 0 to 9 (For example, 049).

6 Press the ◀ key to store the channel found or to search for another channel.
7 Select **Fine tune** and press the ▶ key. Fine tuning can be useful when the frequency has shifted a bit or when interference of another frequency occurs. Adjust the frequency with the ▲ or ▼ key in case of poor reception of the channel found.
8 Select **Store current channel** if you want to store the (fine tuned) frequency under the current channel number.
Press the ▶ key and confirm with the **OK** key.
Select **Store as new channel** if you want to store the (fine tuned) frequency under a new channel number.
Press the ▶ key and confirm with the **OK** key.
9 Use the rearrange menu to rename or reshuffle the channels. See next page.

**Note**
When on a frequency where a DVB signal is broadcasted, the tuner will try to decode an analogue TV channel, and hence will not show video.

## 6.5 Rearrange the channel number list

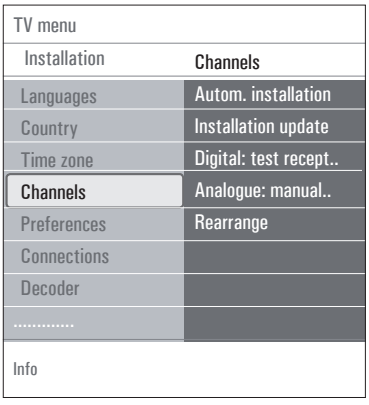
This allows you to rename, to rearrange and to uninstall or reinstall the stored channels.

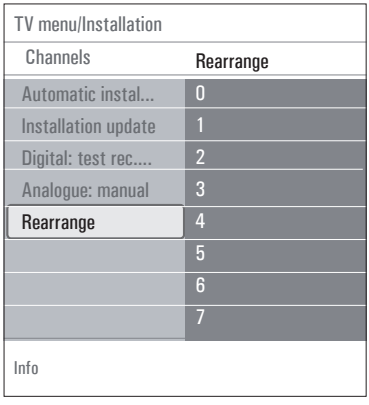
1 Press the corresponding colour keys and follow the on screen instructions.

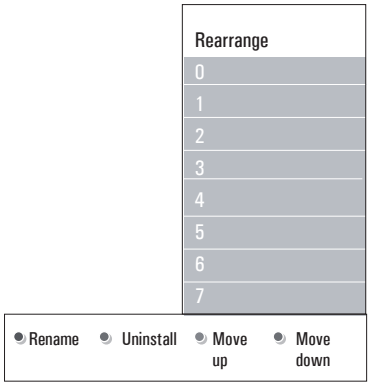
### Rearrange

This allows you to change the order of the stored TV channels.

1 Select the channel you want to change place.
2 Press the yellow colour key to move up a single position in the list.
3 Press the blue colour key to move down a single position in the list.
4 Repeat to rearrange other TV channels.




### Rename

This allows you to change the name stored in the memory or to assign a name to a channel or external for which a name has not yet been entered.

1 Select the channel you want to rename.
2 Press the red colour key on your remote control.
3 Select the characters with the ▲ or ▼ key. Select the following position with the ▶ key.
4 Press the green colour key or the **OK** key when finished.

### Notes

- press the yellow colour key to delete all characters. The cursor is positioned at the beginning again;
- press the blue colour key to delete the character the cursor is positioned. Enter a new character with the ▲ or ▼ key;
- a name can be given to the channel numbers 0 to 999;
- space, numbers and other special characters are located between Z and A.

5 Select another channel number and repeat steps 2 to 4.

**Uninstall - reinstall**

This allows you to uninstall a stored channel so that it is no longer possible to tune to. This also allows you to reinstall an earlier uninstalled channel.

1 Select the channel you want to uninstall.

2 Press the green colour key to uninstall the selected channel.
The uninstalled channel is indicated in the list by an icon ✉ in front of the uninstalled channel.

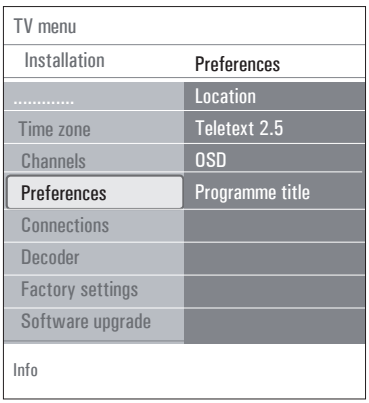
3 Press the green colour key again to reinstall the uninstalled channel.

**Note**

Uninstalled channels are not reinstalled during an installation update.

## 6.6 Set your preferences

This menu contains items that can set or adjust various special TV functions and that will typically be accessed only occasionally.




**Select your location**

This allows you to select the location of your TV. If you choose for **Shop** it will result in fixed settings of picture and sound.
The location **Home** will give full flexibility to change any predefined settings for picture and sound.

**Select Teletext 2.5**

Some broadcasters offer the opportunity to see more colours, other background colours and nicer pictures in the teletext pages.

- Select **Teletext 2.5 On** to take advantage of this feature.
- Select **Teletext Off** if you like the more neutral teletext layout.
  The selection made is valid for all the channels which broadcast Teletext 2.5.

**Note**

It may take a few seconds before teletext broadcast switches over to Teletext 2.5.

**Select the On Screen Display (OSD)**

This allows you to select the display of the volume bar and a reduced or extended on screen display of programme and channel information.

- Select **Minimum** to activate the display of reduced channel information.
- Select **Normal** to activate the display of extended channel and programme information. For example, information on the programme, input signal quality of connected peripheral equipment, the screen format and sound mode, selected audio language, subtitle language, ratings, remaining time of the sleeptimer setting.

**Display a Programme title**

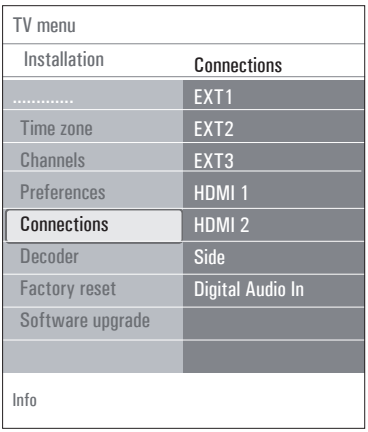
This allows you, to display the programme title according to the transmitted information.

- When selected **Yes**, after the selection of a TV programme or after you press the i+ key on the remote control, a programme title will be displayed if transmitted.

### 6.7 Select your connections

This allows you to select the peripheral equipment you have connected to the audio and video connectors.

1. Select **Connections**.
2. Press the ▶ key.
3. Select the input to which the peripheral equipment is connected.
   - When you select **EXT1, EXT2, EXT3, HDMI 1, HDMI 2, Side** or **Digital Audio In**, a list appears which allows you to identify which type of peripheral equipment is attached to this input.
4. Press the ▶ key again to enter the list of types of peripherals connected to the selected input.
5. Select the peripheral equipment with the ▲ or ▼ key.




**Digital Audio In**

If a peripheral equipment has a digital audio output, you can connect this with a single cable to the TV's **DIGITAL AUDIO IN** connector. In the Connections menu, assign the **Digital Audio In** to the corresponding external input to which your peripheral equipment is connected.

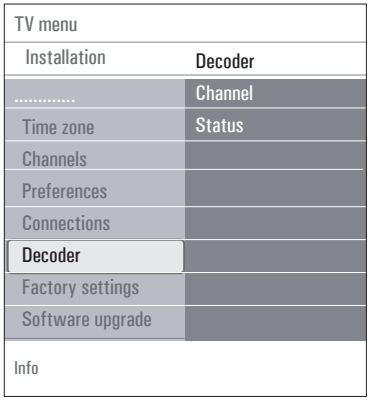
In addition to accepting audio input via Digital Audio In, the TV can output encoded Dolby Digital audio via the **DIGITAL AUDIO OUT** connector to an external amplifier or receiver. If your amplifier or receiver has a matching connector for Digital Audio In, you can connect it with a single cable to the TV's **DIGITAL AUDIO OUT**.

See 'To make video and audio connections', Connect a Home Cinema amplifier, p. 50.

### 6.8 Select a Decoder channel number

This allows you to define one or more channel numbers as decoder channel numbers when a decoder or a descrambler is connected to **EXT1** or **EXT2**.

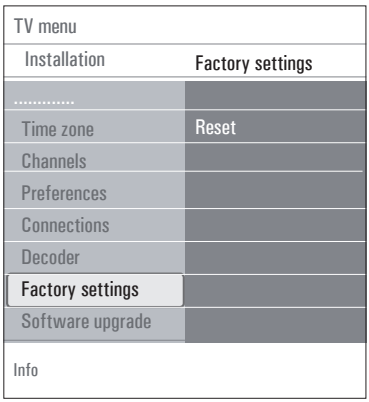
1. Select the channel number under which you have stored the programme that comes from your decoder or descrambler.
2. Select **Status**.
3. Select the input used to connect your decoder: **None, EXT1** or **EXT2**.
   - Select **None** if you do not want the selected channel number being activated as a decoder channel number.



### 6.9 Reset the Factory settings

This allows you to reset most of the predefined factory states.

1. Select and press the ▶ key.
2. Press the **OK** key to erase settings and reset them to their default values.




### 6.10 How to upgrade the TV software

This allows you to upgrade your TV software using a USB device.

**USB device upgrade**

It is possible to initiate an upgrade procedure from a USB device (before you start up the TV). The memory device must be filled with the appropriate upgrade image (and structure) which can be found on the www. philips.com/ software website.

How to upload a new software version on your memory device, see 'Philips TV software upgrade with portable memory', p. 53.

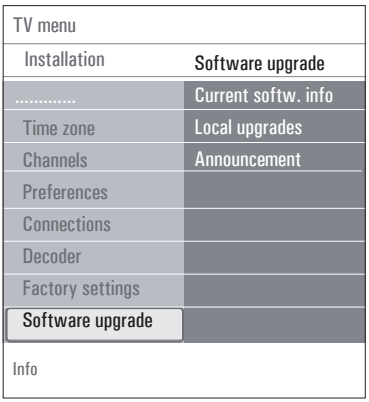
**Automatic software announcement** (if present)

When you switch on your TV a message may appear that a new software upgrade is available.

1. Press the red colour key on your remote control if you want to be reminded later on.
2. Press the green colour key on your remote control to confirm you have read the message.
   - Once you have confirmed, the message will not pop up again. If however, you want to see the last broadcasted announcement again, select **Announcement** in the Software upgrade menu.

**Note**

As long as the software upgrade has not been executed, the message will be available.



# 7 Create your favourite list

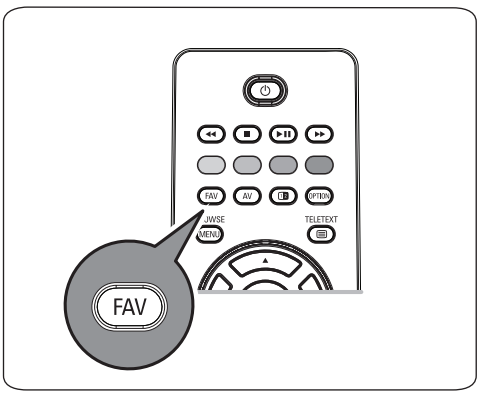
This allows you to create up to four favourite channels lists with your preferred TV channels and radio stations. For example, each member of your family can create his/her own favourite list.

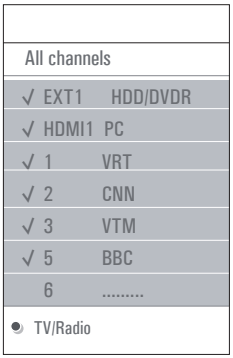
**Note**

When this key is pressed the first time after you have finished the installation, it will bring up the full channel list. In other situations it will bring up the last selected channel list.

## 7.1 To select a channel from the diplayed favourite list

1. Press the **FAV** key.
   The last selected channel list appears.
2. Press the ▲ or ▼, ◀ or ▶ to select a channel.
3. Press the **OK** key to display the selected channel.



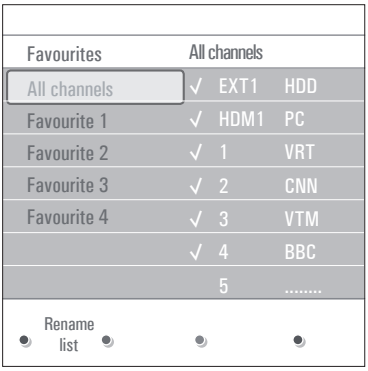




## 7.2 To select another favourite channel list

1. Press the **FAV** key.
   The last selected channel list appears.
2. Press the ◀ key.
3. Press the ▲ or ▼ key to select a list.
4. Press the red colour key to rename the lists if you want to.
5. Press the **FAV** key again to exit.

## 7.3 To create a favourite list or to modify the list

1. Press the **FAV** key.
   The last selected channel list appears.
2. Press the ◀ key.
3. Select your desired channel list.
4. Press the ▶ key.
5. Press the red colour key to add channels.
   All channels present in the list are displayed.
   The favourite channels are marked.
6. Press the ▲ or ▼ key to select the channel you want to add to or skip from the list.
7. Press the green colour key to mark or Unmark the highlighted channel and to add it to or remove it from your selected favourite list.




**Note**

Press the red colour key again to display the list holding your favourites

8 Press the **FAV** key again to exit.
With the **–P+** key you will be able to browse through the TV channels of the selected list.

**Note**

With the digit keys you can still select channels which are not marked as favourite.

## 7.4 To select only TV or only radio channels on the All channels list

When the All channels list is displayed or selected you may filter the list and select a list with only the TV channels or a list with only the radio channels.

1 Press the **FAV** key.
The last selected channel list appears.
2 Press the ◀ key.
3 Select the All channels list and press the ▶ key.
4 Press the red colour key to filter.
5 Select your desired channels list.
6 Press the **FAV** key again to exit.
With the **–P+** key you will be able to browse through the TV channels of the filtered list.

**Note**

The filtering will not be remembered after the TV is switched off or set to standby.

# 8 EPG (Electronic Programme Guide) (only with Digital TV channels)

The Electronic Programme Guide shows you detailed information about the current programme and also about the next programme (only for TV programmes that provide EPG information).

**Note**

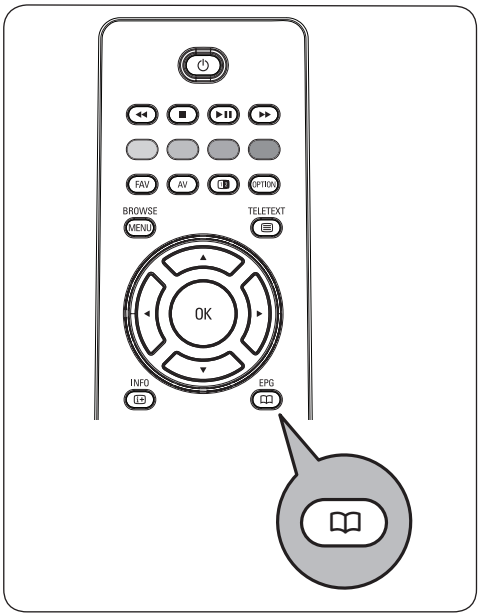
These instructions may differ according to the type of Electronic Programme Guide.

1 Press the 🕮 key.

- The EPG screen appears. Dependent on conditions it may take some time to acquire EPG data.
- The EPG screen updates automatically if the EPG data is acquired successfully. If not, the EPG screen remains blank.
- Information about the selected programme appears.

2 Press the coloured keys to activate the available EPG features displayed at the bottom of the screen.

3 Press the 🕮 key again to quit.




**When the type of Electronic Programme Guide available, displays a list of TV programmes:**

1 Press the ▲ or ▼ key to select a desired TV programme.
Information about the selected programme appears.

**Tips**

- the EPG screen will not include TV channels which are not in the Preferred channel list or which are uninstalled (See Rearrange menu).
- new added channels (via reinstallation or installation) will have to be marked in the preferred EPG channel list before you can see EPG data.

2 Press the green colour key on the remote control to watch/listen to the selected programme currently on air.

3 Press the red colour key to mark/unmark a reminder on the selected programme. You can set up to a maximum of 10 reminders.

The TV will wake up automatically or display a message when the programme is about to start. Follow the instructions on screen to watch the programme.

4 Press the yellow colour key to jump to the **Next** or the **Previous day** or back to **Today**.

5 Press the BROWSE MENU key, while Programme Guide is active, to activate the Programme Guide main menu.

6 Press the ▲ or ▼ key to highlight and select a menu item.

- **What's on** allows you to browse through the programme guide information of your preferred EPG channels.
- **Search by genre** allows you to search for the programmes according to a selected genre.
- **Scheduled reminders** allows you to view and change the reminders you have set.

  **Note**

  The reminder(s) will wake up your TV from standby only if you switched off your TV with the ⏻ key on your remote control.
- **Preferred EPG channels** are the channels from which the EPG data is currently being acquired. This menu allows you to mark/unmark (up to 50) preferred EPG channels.

  **Note**

  After the installation of your channels, by default 40 channels with available EPG data will automatically be marked as preferred EPG channel.
- **Acquire EPG data** allows you to update the information for the preferred programme guide channels. Follow the instructions on screen.

  **Note**

  Acquisition of EPG data is done automatically while watching TV.

7 To quit the Electronic Programme Guide, press the key again.

**Tips**

- the EPG screen will not include TV channels which are not in the Preferred channel list or which are uninstalled (See Rearrange menu).
- new added channels (via reinstallation or installation) will have to be marked in the preferred EPG channel list before you can see EPG data.

# 9 Multimedia Browser

The Multimedia browser lets you display pictures, movies or play audio files stored on a USB device. The Multimedia browser application is invoked from the main menu.

- Following file formats can be reproduced:
  for pictures: JPEG
  for audio: MP3, MP3 Pro, LPCM
  for video: MPEG1, MPEG2
- Only FAT/DOS-formatted memory devices are supported.
- Philips can not be held responsible if your USB device is not supported.

## 9.1 To view content from a USB device

**Tip**

If your USB device does not fit into the USB connector at the side, use an USB extend cable to connect the USB device to the USB port. Ask your dealer for more information.

## 9.2 To insert a USB device

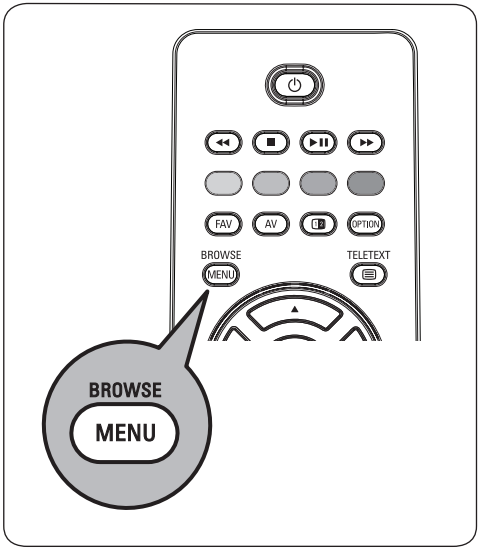
**Note**

USB devices are not supplied with this TV.
For the best connection, use a USB device which is less than 25 mm wide.
In case of a USB-memory stick or a digital camera, connect it to the USB connector at the side. See 'To make video and audio connections', Side panel overview, p. 43.
When a USB device is inserted, the Multimedia browser menu is displayed automatically. See further.

## 9.3 To remove the USB device

1 Press the BROWSE (MENU) key on the remote control to switch off the main menu.

2 Remove the USB device.

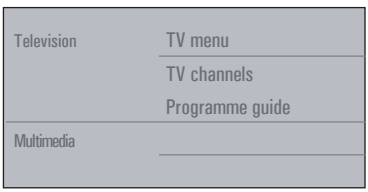



## 9.4 Multimedia Browser menu

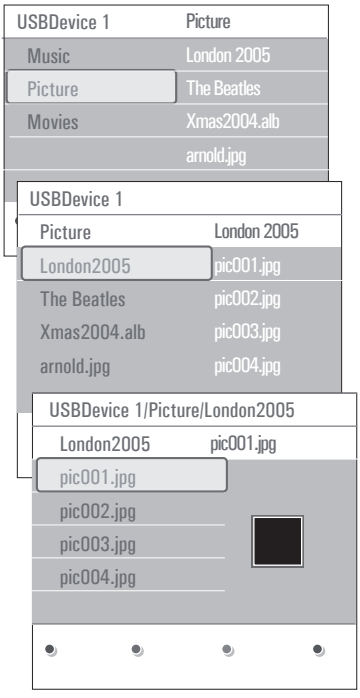
1 Insert a USB device.

2 Select the USB device under Multimedia with the ▲ or ▼ key.

- The Multimedia browser allows you to browse content stored on the inserted USB device.
- The 2-panel browser will be shown with the left panel containing the content types (Music, Pictures, Movies).
- The right panel will display the content that is available of the selected content type.



3 Press the ▶ key to enter the content.
4 Press the ▲ or ▼ key to select a content.
5 Press the ▶ key to enter the content.
6 Press the ▲ or ▼ key to select a file or a directory.




**Note**

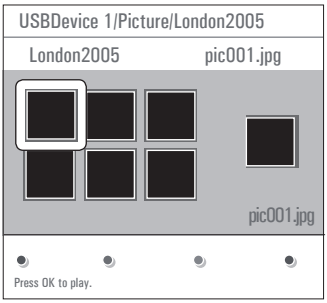
Press the green colour key to display all the image files in the current direcary as thumbnails when browsing pictures. Press the green key again to display the image files in a list.

7 In case a **file** is selected, press the **OK** key to display a picture file or to play a video or an audio file.
In case a **directory**, **album** or **playlist** is selected, press the ▶ key to enter the content or press the **OK** or ▶❚❚ key to start a slide show or a loop playback of the files present.
8 Press the ◀ key to keep music playing and switch back to the Multimedia menu.
9 Press one of the colour keys on the remote control to perform the corresponding function mentioned at the bottom of the screen.

**Tip**

The blue colour key can, if necessary, be used to let the colour keys reappear.

10 To stop playing content, press the ■ key on the remote control.




**Notes**

- your TV supports slide shows with background music.
  See 'Slideshow format with background music', p. 56;
- the playback will continue to play even if temporarily switched to browser screens. The audio will be stopped when another song starts playing, or when the end has been reached;
- more technical remarks can be found in 'Digital camera and USB issues', p. 59.

**Following icons may appear:**

folder
self made playlist/album
pictures
video
music

## 9.5 Function keys at the bottom of the screen

| | |
|---|---|
| Details | to display a description of the selected file or directory |
| Transitions | to select if you like to apply a transition during a slide show |
| Slide time | to select the duration a picture will be displayed in a slide show |
| Rotate | to rotate a picture |
| Repeat one/all | to repeat the playback of a music file |
| Shuffle | to shuffle music collections in a random way |
| Zoom | to select one of the zoom magnifications (x1, x2, x4) with the ▲ or ▼ keys. Additionally you can shift the selected zoom window over the screen with the ▲ or ▼, ◀ or ▶ keys. |
| Full/small screen | to toggle between a full or a small screen |

**Note**

To rotate a picture or to select one of the zoom magnifications, first stop the slide show with the **OK** key or the blue colour key.

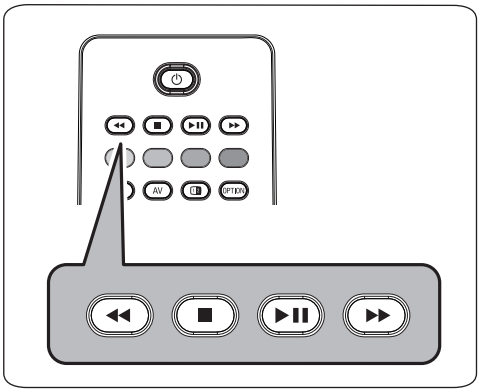
## 9.6 Multimedia function keys on the remote control

◀◀ to fast rewind displaying content.

■ to stop playing content.

▶❚❚ to play a single file, start a slide show, playback of a folder or other collection to pause playing content.

▶▶ to fast forward displaying content.

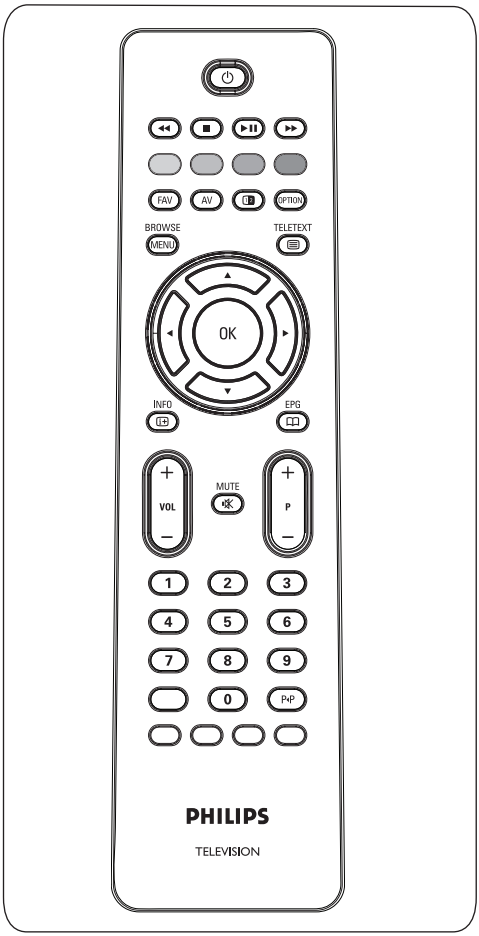


# 10 Teletext

**Note**

Teletext is not available via equipment connected to the **HDMI** connector.

Most TV channels broadcast information via teletext.
This TV has a 1200 pages memory that will store most broadcasted pages and subpages to reduce waiting time. After each programme change, the memory is refreshed.




**Select Teletext on**

1. Press ☰ to switch the teletext on.
   The main index page appears on the screen.

**Select a Teletext page**

1. Enter the desired page number with the digit keys or with the **-P+** key.
2. Select the options at the bottom of the screen with the colour keys.

**Previous selected teletext page**

1. Press the P◂P key.

**Select T.O.P. teletext broadcasts**

1. Press i+.
   A T.O.P. overview of the teletext subjects available is displayed.
2. Select with the ▲ or ▼, ◀ or ▶ key.
   the desired subject and press the **OK** key.

**Note**

Not all TV channels broadcast T.O.P. teletext.

**Select subpages**

When a selected teletext page consists of different subpages, a list of available subpages appears on the screen.

1. Press the ◀ or ▶ key to select the next or previous subpage.

**Picture/Teletext**

1. Press the ☰ key.
2. Press the 1 2 key to show Teletext on the right of the screen.
3. Press the 1 2 key to return to a full teletext picture.
4. Press the ☰ key to return to a full screen picture.

### Hypertext

With hypertext you can quickly jump to a pagenumber or search for a specific word shown on the current teletext page.

1. Press the **OK** key to highlight the first word or a number on the page.
2. Press the ▲ or ▼, ◀ or ▶ key to select any other word or number you want to search for.
3. Press the **OK** key to confirm. The search starts.
   A message appears at the bottom of the screen to indicate the searching, or that the word or page is not found.
4. Press the ▲ key until the top of the page to exit hypertext.

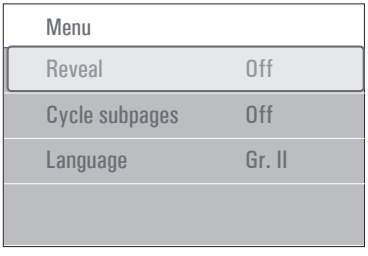
### Enlarge a Teletext page

1. Press the OPTION key on the remote control repeatedly to display the upper teletext part, the lower teletext part and then to return to the normal teletext page size.

### Teletext menu

The Teletext menu offers various functions to control teletext.

1. Switch teletext on and press the BROWSE MENU key to activate the menu.
2. Press the ▲ or ▼ key to select the menu items.
3. Press the **OK** key to activate.
4. Press the BROWSE MENU key to leave the teletext menu.




### Reveal

Reveals/conceals hidden information on a page, such as solutions to riddles and puzzles.

### Cycle subpages (if subpages are available)

Makes the subpages cycle automatically.

1. Press the **OK** key to activate and to deactivate again.

### Language

If the displayed characters on screen do not correspond with the characters used by the teletext broadcaster, you can change the language group here.

1. Select **Group I** or **Group II** with the **OK** key.

### Digital text (only for UK)

Some digital channels offer dedicated digital text services (for example BBCi).

1. Press ☰ to switch Digital text on.

**Note**

**UK only:** Digital text is displayed when programmes are carrying digital text or interactive services.

- To use the digital text, follow the instructions on screen.
- Depending on the service, you may be asked to use the ▲ or ▼, ◀ or ▶ keys, the **OK** key, the coloured keys, the teletext key and sometimes the digit keys.

2. When you have finished watching teletext, select a different channel with the **-P+** keys or follow the instructions on screen to return to picture.
3. Press ■ to cancel digital text or interactive services.

**Text info**

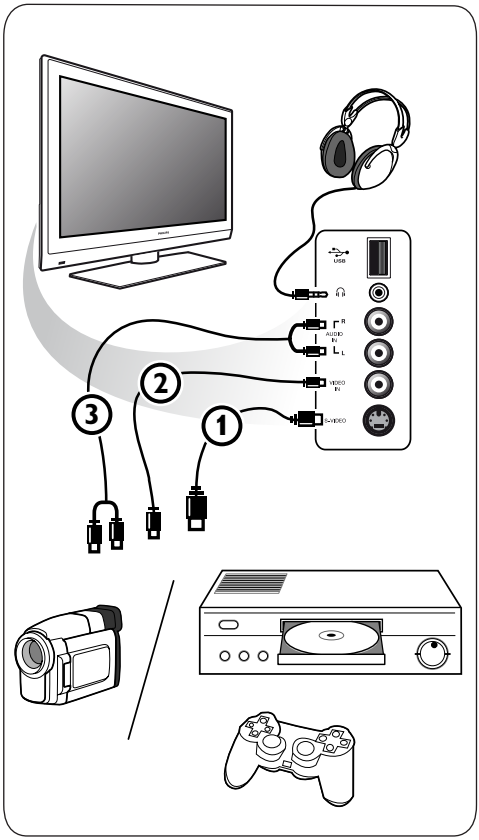
Some digital channels also offer information on the programme being broadcast. In that case a message may appear at the bottom of the screen for a few seconds. Follow the instructions on screen and use the ▲ or ▼, ◀ or ▶ keys to scroll through the next pages.

**Note**

Digital text will not be available when Subtitles are set to **On** in the Features menu.

# 11 To make video and audio connections

## 11.1 Side panel overview




### Camera, Camcorder or Game

1. Connect your camera, camcorder or game as shown.
2. Connect to **VIDEO** ② and **AUDIO L** ③ for mono equipment. For stereo equipment also connect **AUDIO R** ③.
   S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

**Warning**

Do not connect cable ① and ② at the same time. This may cause picture distortion !

### Headphone

1. Insert the plug into the headphone socket as shown.
2. The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.
   In the Sound menu select **Headphone volume** to adjust the headphone volume.

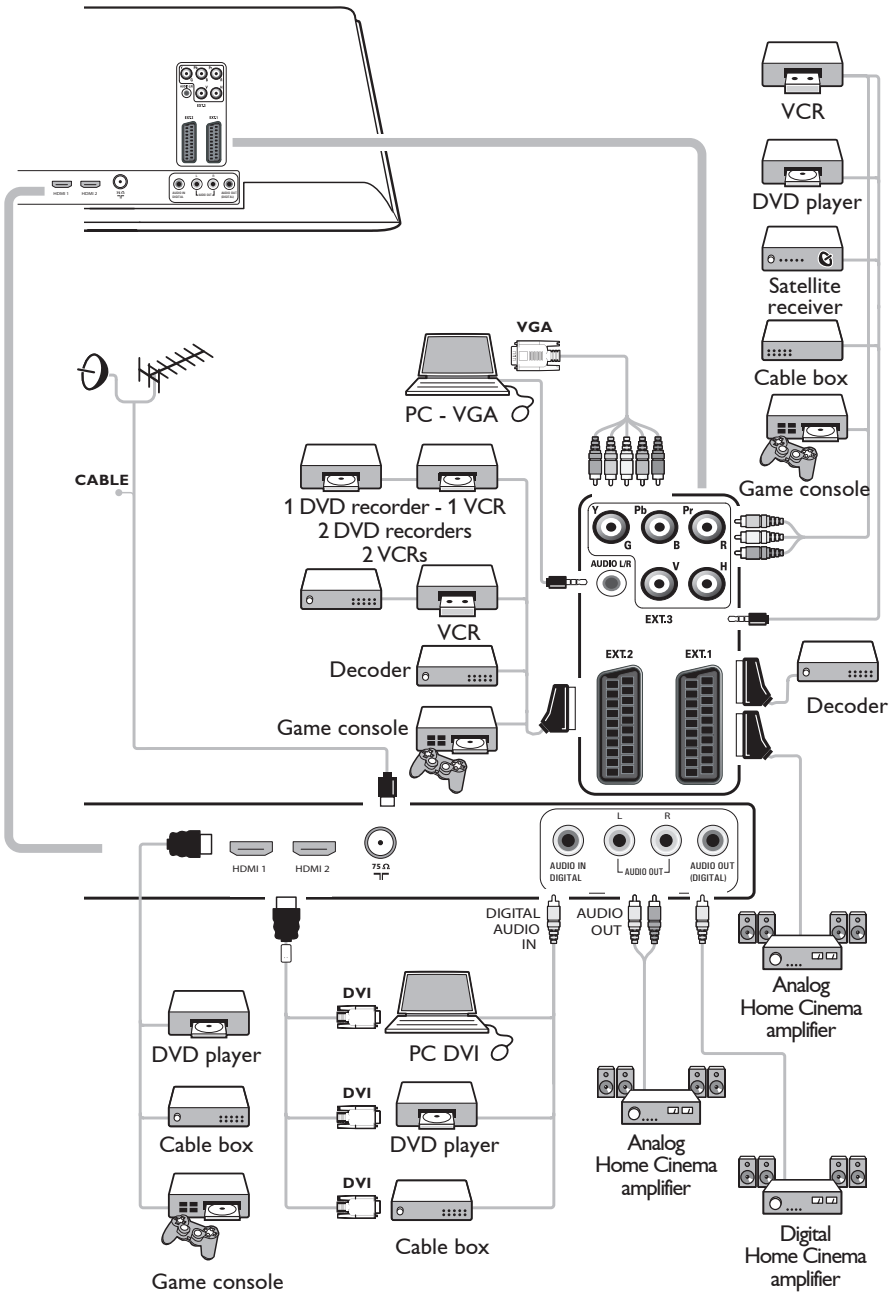
**Tip**

Press on the remote control to switch off the internal loudspeakers of the TV.

### USB

See 'Multimedia browser', p. 37.

## 11.2 Rear panel overview



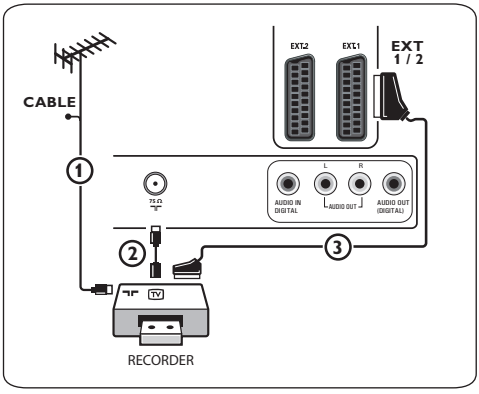
## 11.3 Connect a DVD or VCR recorder

### Warning

Do not place your recorder too close to the screen as some recorders may be susceptible for signals from the display. Keep a minimum distance of 0.5 m from the screen.

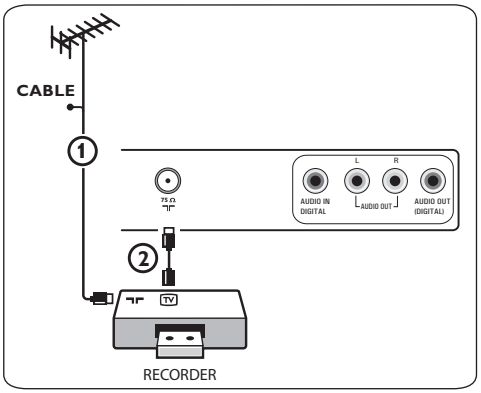
### With a eurocable

1. Connect the aerial cables ① and ② as shown.
2. Connect the eurocable ③ as shown.
3. Make your selection of the source to which the DVD or VCR has been connected in the Installation menu, 'Select your connections', p. 31.




### With the aerial cable only

1. Connect the aerial cables ① and ② as shown.
2. Tune in your recorder's test signal and store the test signal under programme number 0.
   See 'Analogue: manual installation', p. 28.
   See also the handbook of your recorder.

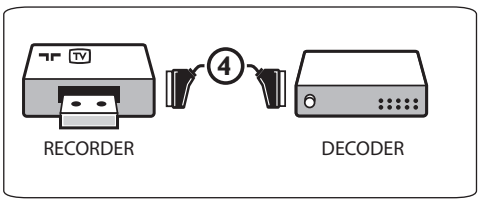



## 11.4 Connect a decoder and a VCR

1. Connect a eurocable ④ to your decoder and to the special euroconnector of your recorder.
   See also the handbook of your recorder.

### Tip

You can also connect your decoder directly to **EXT1** or **EXT2** with a eurocable.



## 11.5 Connect two VCRs or VCR and DVD recorder

**Note**

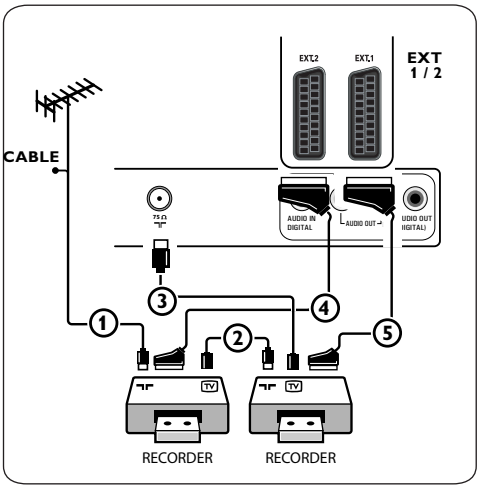
You can not record signals from equipment connected to the **YPbPr** input.

**With eurocables**

1. Connect the aerial cables ①, ② and ③ as shown.
2. Connect your VCRs or DVD-recorder to **EXT1** and **EXT2** with the eurocables ④ and ⑤.
3. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31, and link it to **EXT1** or **EXT2**.

**With aerial cables only**

1. Connect the aerial cables ①, ② and ③ as shown.
2. Tune in your recorder's test signal and store the test signal under programme number 0. See 'Analogue: manual installation', p. 28. See also the handbook of your recorder.



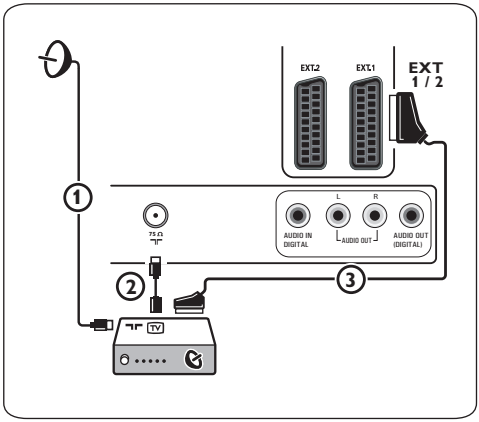

## 11.6 Connect a satellite receiver

**With a eurocable**

1. Connect the aerial cables ① and ② as shown.
2. Connect your satellite receiver to **EXT1** and **EXT2** with a eurocable ③.
3. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31, and link it to **EXT1** or **EXT2**.

**With Component Video connectors**

See 'Connect a DVD player, a satellite receiver or a cable box', p. 48.



## 11.7 Connect a DVD player, Cable box or game console

**Tip**

If necessary, you can adjust the picture position to the centre of the screen with the cursor keys.

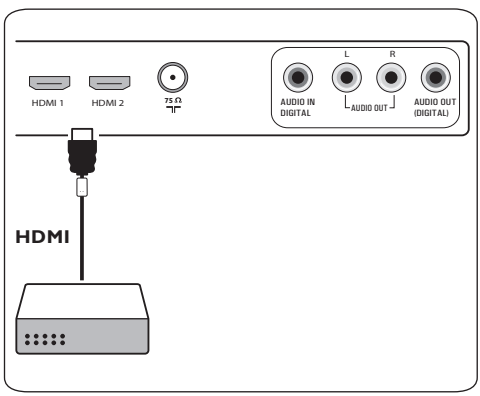
### With a HDMI connector

HDMI is the leading new standard for Digital video and audio interconnection.

1. Connect your equipment with the **HDMI** connector.
2. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31, and link it to **HDMI1** or **HDMI2**.

**Note**

In case of any problems, see 'Issues referring to connected peripherals with a HDMI connector', p. 61.

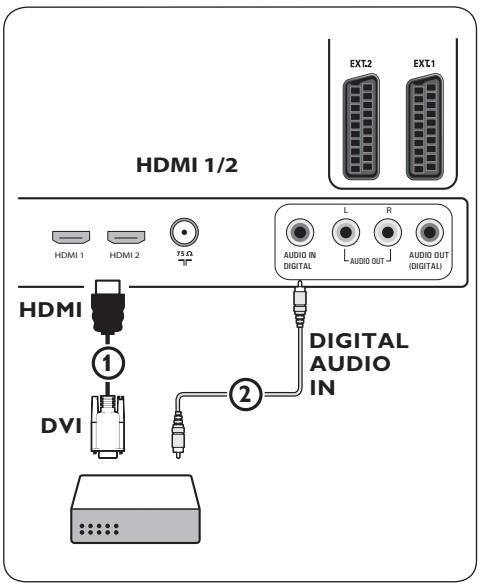



### With a DVI connector

**Note**

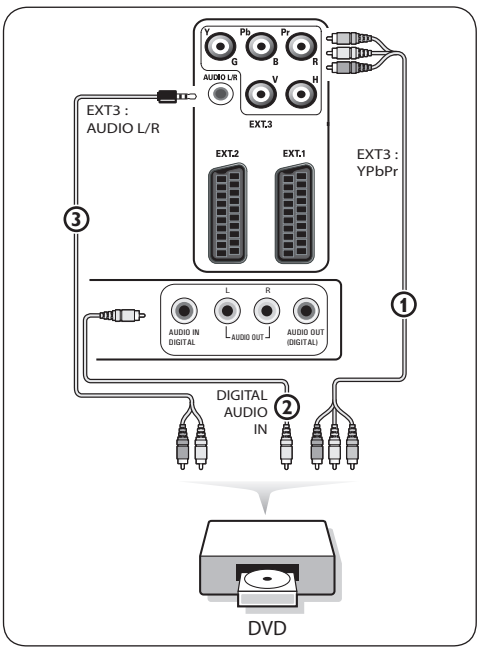
Only a DVD player with DVI with digital sound can be connected to the **HDMI** connector.

1. Connect the DVI to HDMI cable to one of the **HDMI** connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31 and link it **HDMI1** or **HDMI2**.
4. Also select **Digital audio in** in the same Connections menu.



### 11.8 Connect a DVD player, satellite receiver or Cable Box

1. Connect the three separate component video cables ① to the YPbPr jacks on the DVD player and to the **Y, Pb** and **Pr** jacks of **EXT3** on the TV.
2. Connect the audio cable ② to the digital out of the equipment and to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31 and link it to **EXT3**. Also select **Digital audio in** in the same Connections menu.
4. In case of a DVD player with analogue audio, connect the audio cable to the DVD's audio **L** and **R** jacks and to the **L/R AUDIO** jack of **EXT3** ③.
5. In case of a cable box and/or a satellite receiver also connect the cable TV cable and/or the satellite antenna cable ④ and the aerial cable ⑤.

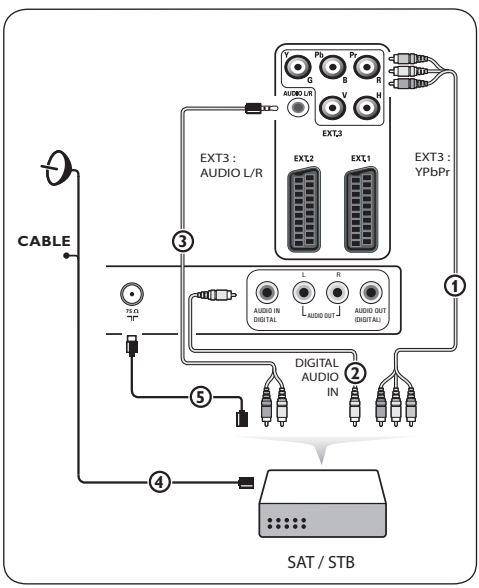



**Notes**

- cables are often colour coded. Connect red to red, white to white, etc..;
- the labels for the component video sockets may differ depending on the DVD player connected. Although the abbreviations may vary, the letters B and R stand for the blue and red component signals, respectively, and Y indicates the luminance signal. Refer to the DVD player's instructions for use for definitions and connection details;
- to get an optimal viewing, it is advised to switch your equipment to the highest possible supported display modes.

**Warning**

In case you notice scrolling images, wrong colours or no colour, no picture, or even combinations of these on your screen, verify if the connections are done in the correct way and if the resolution and the signal standard of the connected equipment are set in the right way. See the handbook for your equipment.



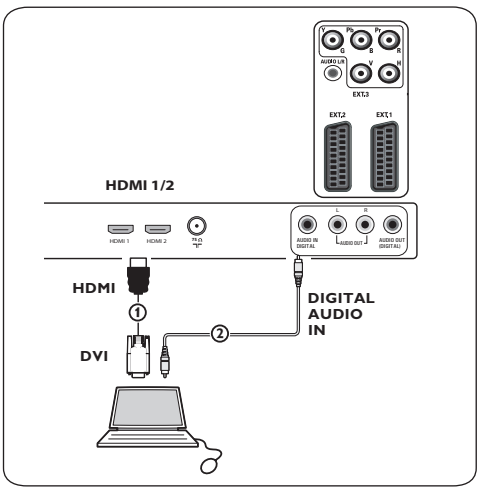
## 11.9 Connect a PC

**Notes**

- only a PC with digital sound can be connected to the **HDMI** connection;
- if your PC does not have digital sound output, connect your PC via a VGA connector;
- before connecting your PC to the TV, select your PC monitor settings to a refresh frequency of 60 Hz;
- supported PC monitor modes:
  VGA 640 x 480
  SVGA 800 x 600
  XGA 1024 x 768

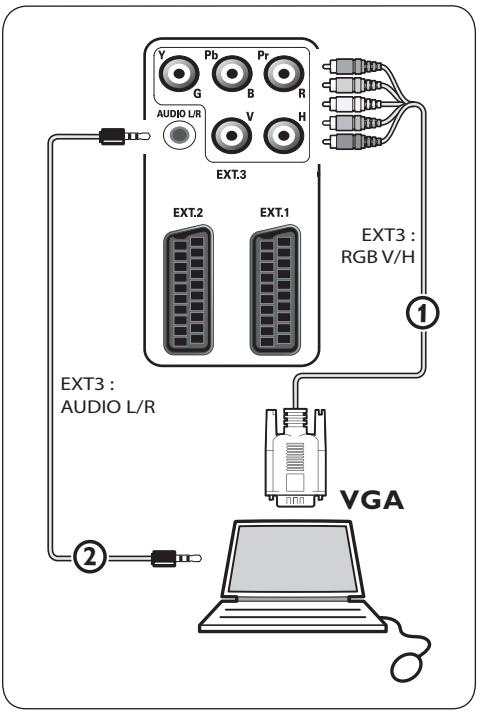
**PC equipped with a DVI connector:**

1. Press a DVI to HDMI cable to connect to one of the **HDMI** connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31, and link it to **HDMI1** or **HDMI2**.
4. Also select **Digital audio** in the same Connections menu.




**PC equipped with a VGA connector:**

1. Press a VGA to RGB H/V cable ① to connect to the **RGB H/V** connectors of your TV.
2. Connect the audio cable ② to the **AUDIO R** (right) and L (left) inputs of the TV.
3. Select the equipment you have connected in the Installation menu, 'Select your connections', p. 31.



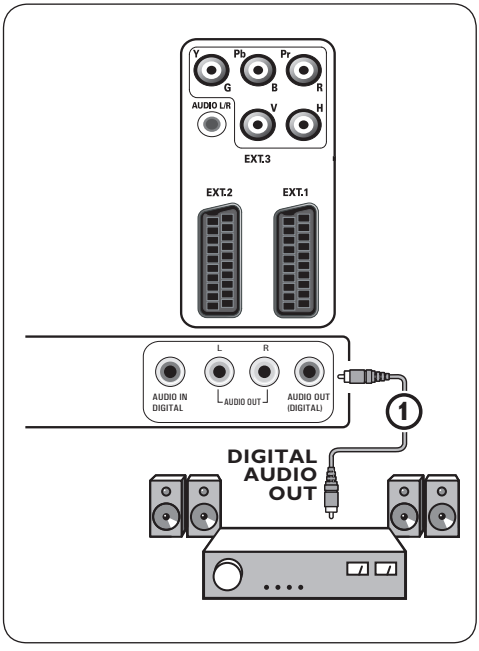
## 11.10 Connect a Home Cinema amplifier

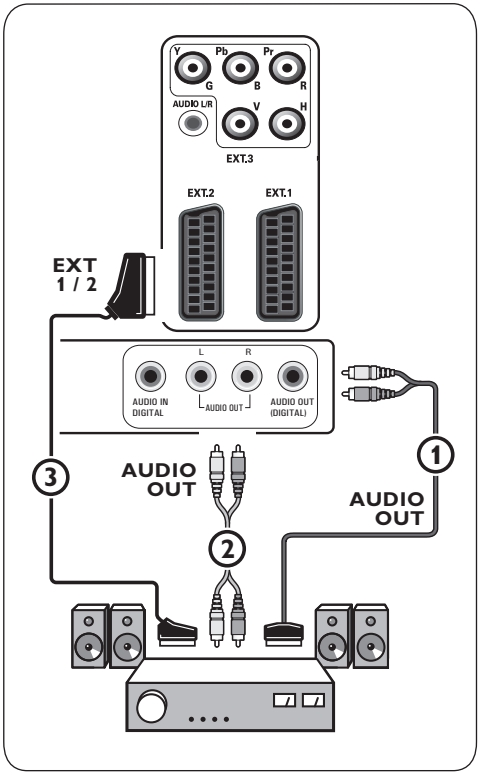
### Digital Home Cinema amplifier

1 Connect a digital Home Cinema amplifier to the **DIGITAL AUDIO OUT** connector ① at the bottom of the TV.

**Tip**

To avoid visible delay between picture and sound, use this **DIGITAL AUDIO OUT** connector to connect your Home Cinema amplifier.




### Analogue Home Cinema amplifier

1 According to the type of connector cables and the connector input available on your Home Cinema amplifier, connect your receiver to the **AUDIO OUT L** and **R** connectors ③ or to **EXT1** or **EXT2** ② at the bottom or the rear of the TV.

# 12 Troubleshooting

| Symptom | Possible cause/Remedy |
|---|---|
| **No picture** | • Verify if the supplied cables are connected properly. (The aerial cable to TV, the other aerial to your recorder, the power cables, ..)<br>• Verify if you selected the correct source.<br>• Verify if the child lock has been switched off. |
| **Poor picture** | • Verify in the Manual installation menu if you have selected the correct TV system.<br>• Verify if your TV or house aerial isn't located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.<br>• Mountains or high buildings can cause double pictures or ghost images.<br>• Sometimes you can improve the picture quality by changing the direction of the aerial.<br>• Is the picture or teletext unrecognisable or do you experience bad teletext reception ? Verify if you have entered the correct frequency, or fine tune the frequency for that specific channel or adjust the antenna direction if the problem isn't solved by finetuning. See Installation, 'Analogue: manual installation', p. 28. |
| **Poor colour** | • Select Factory settings in the Installation menu.<br>• Verify the connections between the optional equipment and the TV. |
| **No sound** | • Verify if the volume isn't at minimum.<br>• Verify if the sound hasn't been muted with the key.<br>• Verify the connections between the optional equipment and the TV. |
| **No digital channels** | • Contact your dealer about Digital Video Broadcasting Terrestrial signal availability in your country. |
| **No subtitles (UK ONLY)** | • Under certain circumstances Digital text or interactive services may have priority over subtitles. This can result in the subtitles not automatically reappearing when leaving Digital text or interactive services on a channel which is broadcasting subtitles. In these cases subtitles can be initialised, either by toggling the OPTION or the BROWSE MENU key on the remote control or by changing channel. |
| **The remote control does not work** | • Verify if the remote control is set correctly for the equipment your are using.<br>• Verify if the batteries are not dead. Replace the batteries.<br>You can still use the keys at the left side of the TV. |

| | |
|---|---|
| **The remote control of connected equipment does not work well** | • The infrared signals of the screen may influence the reception sensibility of other peripherals.<br>• Solution: replace the batteries of the remote of other peripheral equipment. |
| **Occasional appearance of red, blue, green, and black spots on screen** | • The sympton is not a problem.<br>The liquid crystal panel is built with very high precision technology giving you the fine picture details. Occassionally a few non-active pixels may appear on the screen as a fixed point of red, blue, green, or black. Note that this does not affect the performance of the set. |
| **No photo or music play or in poor quality** | • Verify if the source complies with a supported code. |
| **Unstable or not synchronised VGA picture** | • Verify if you have selected the correct VGA mode in your PC.<br>See Connect a PC, p. 49.<br>• Verify the connections between the TV and the PC. |
| **No solution found for your picture or sound problem** | • Switch off your TV off and then on again once.<br>Never attempt to repair a defective TV yourself. Verify with your dealer or call a TV technician. |
| **Red blinking led** | • Unplug the mains cord and insert it in again. |

# 13 Philips TV software upgrade with portable memory

**Introduction**
Philips offers software upgrade capability for your TV using portable memory. After you have completed a software upgrade, your TV will typically perform better.
What improvements are made depends on the upgrade software you are using as well as the software your TV contained before the upgrade.
You can execute the software upgrade procedure yourself.
Be aware that the content of this document is addressing technical or software skilled users.

**To prepare a portable memory for software upgrade**
For the procedure you will require:
- a personal computer with web browsing capability;
- an archive utility that supports the ZIP-format (e.g. WinZip for Windows or Stuffit for Mac OS);
- a preferably empty USB memory stick.

**Note**
Only FAT/DOS-formatted portable memory is supported.

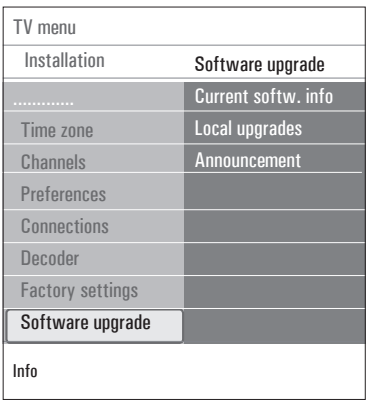
New software can be obtained from your dealer or can be downloaded from the www.philips.com/support website:

1. Go to **www.philips.com/support** using the web browser on your PC.
2. Follow the procedure to find the information and the software related to your TV.
3. Select the latest software upgrade file and download it to your PC.
4. Decompress the ZIP-file and copy the file "autorun.upg" to the root directory of the USB portable memory.

**Note**
Only use software upgrades that can be found on the www.philips.com/support web site.

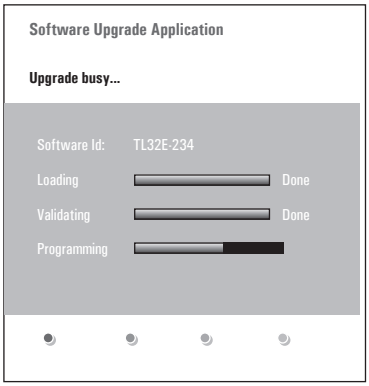
**To verify the version of the TV software**
Before you start the software upgrade procedure, it is advised to check what the current TV software is.

1. Select **Software Upgrade** in the TV menu, Installation, Software upgrade.
2. Press the ▶ key.
   The Software Upgrade menu moves to the left panel.
3. Select **Current Software Info** to observe the version and the description of the current software.




## 13.1 Automatic software upgrade procedure

1. Switch off your TV and remove all memory devices.
2. Insert the USB portable memory that contains the downloaded software upgrade.




3 Switch on your TV with the power key at the side of the TV.

4 At startup the TV will scan the USB portable memory until it finds the update content. The TV will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

**Warning:**

- you are not allowed to remove the USB portable memory during the software upgrade procedure;
- in case of a power drop during the upgrade procedure, don't remove the USB portable memory from the TV. The TV will continue the upgrade as soon as the power comes back;
- if you try to upgrade to a software version lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity;
- if an error occurs during the upgrade you should retry the procedure or contact your dealer;
- the automatic software upgrade procedure will only start if the version on the USB portable memory is different from the one in the TV.

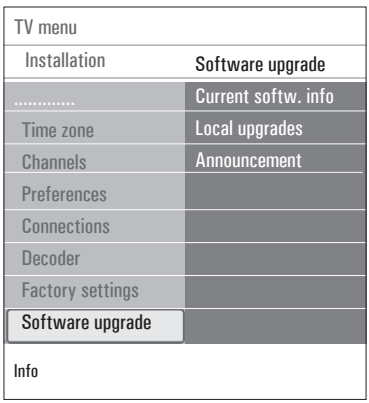
5 When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch at the side of the TV.
Your TV will start up with the new software.

**Note**

Once the upgrade is finished use your PC to remove the TV software from your USB portable memory.

### 13.2 Manual software upgrade procedure

For a manual software upgrade copy the "autorun.upg" file in a directory called "Upgrades" located in the root of the USB portable memory. You can rename the file if you like but keep the .upg extension.




1 Insert the portable memory that contains the downloaded software upgrade.

2 Select **Software Upgrade** in the Installation menu. Go to Local upgrades. The TV will list all compatible software available on the USB portable memory and display the data for each selected upgrade version.

3 Select the correct upgrade version and press the red colour key to start the upgrade.
Your TV will restart and will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

**Warning**
If you try to upgrade to a software version equal or lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity.

4 When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch ⏻ at the side of the TV. Your TV will start up with the new software.

# 14 Slideshow format with background music

**Notes:**

- the latest version of this document can be found on the Philips support website (www.philips.com/support).
  Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible for any problems that may occur as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

**Introduction**

This document explains how to make a Philips slideshow file with background audio.
Be aware that the content of this document is addressing technical or software skilled users.
To start the slideshow open the slideshow file in the Multimedia browser of your TV.

1. Press the BROWSE (MENU) key on the remote control after having inserted a USB device and switched on the TV.
2. Go to where you stored the slideshow file (.alb) on your portable memory.
3. Select the slideshow file and press the **OK** key to start the slide show.
4. To stop a slide show, press the ■ key.

**General Rules**

- The slideshow will use plain ASCII XML syntax to allow the creation and editing of the slideshow files using simple tools.
- All references to network content must be based on the global address of the content.
- Content on a Portable Memory (PM) doesn't have a global address; as a result content from a PM can never be referenced from a slideshow not stored on the PM itself.
- To maintain portability, a slideshow stored on a PM should ONLY reference content on the same PM. Referencing global addresses can result in inconsistencies if the PM is used on a non-networked CE device. The latter is however not forbidden, it is only a recommendation.
- It is preferable that URL's referencing PM content are based on a relative path starting from the directory where the slideshow is stored. This path includes the device or drive name of the PM.
  An absolute path to content will also be supported.
- relative path: pictures\test1.jpg, tamper.jpg, ..\new\bird.jpg, …
- absolute path: USB1:\pictures1\foo_bar.jpg, C:\f1.jpg, \organization.jpg, …

**General Format**

The format and syntax below will be used to create the slideshow file (simple ascii text) with the extension .alb (.ALB). Examples: slshow1.alb, summer_holiday_2004.ALB, test.alb, …
The following syntax should be used to create the text file:

```
<?xml version="1.0" encoding="ISO-
885h9-1" ?>
<philips-slideshow version="1.0" >
  <title>Title of the slideshow</
title>
<audio>audio_url</audio>
<slide-duration>30</slide-dura-
tion>
  <slides>
    <slide>slide_1_url</slide>
    <slide>slide_2_url</slide>
    <slide>slide_3_url</slide>
    <slide>slide_4_url</slide>
    <slide>slide_5_url</slide>
    <slide>slide_6_url</slide>
    ...
    <slide>slide_N-1_url</slide>
    <slide>slide_N_url</slide>
  </slides>
</philips-slideshow>
```

**Supported XML-tags**

The following table gives a description of the XML syntax.

| Tag Name | Use | Description |
|---|---|---|
| philips-slideshow | mandatory | Philips slideshow signature including the version. |
| title | optional | The title of the playlist. |
| audio | optional | The audio-URL following this tag will define the music playing in the background during the slideshow. A single song or playlist (.m3u & .pls) are the only valid audio references. Other reference will not result in any audio playback. If a single song is referenced the song will be repeated forever. If a playlist is referenced the playlist will be played in sequence with a repeat at the end of the playlist. |
| slide-duration | optional | The default display time (in 0,1 second) of a slide. The TV application isn't obliged to support this tag. The TV application can force the use of one or multiple predefined display times |
| slides | mandatory | Identifies the slides to show. |
| slide | optional | Identifies the URL of the individual slide. |

# 15 Digital camera and USB issues

**Notes:**

- the latest version of this document can be found on the Philips support website (www.philips.com/support);
- the software of your TV is upgradeable. If you have problems first check if you have the latest software installed on your TV. The latest software, together with instructions, can be found on the Philips support website. Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

**Digital Camera Issues**

If a USB connection between your digital camera and the TV isn't working, you can try the solutions below to resolve your problem.

- Make sure your digital camera is switched on and verify if the configuration of your digital camera is correct (see the manual of your digital camera for more information).
- Some digital cameras allow you to switch off the USB interface. Make sure that the USB interface is switched on before connecting to the TV.
- If you have a digital camera with only internal memory (no removable memory) you can try to copy the content manually to a USB memory device using a personal computer.
- Some digital cameras allow you to switch between PTP (Picture Transfer Protocol) or "PC Link" and USB Mass Storage. Make sure that you select USB Mass Storage or "PC Drive" on your digital camera.
- If your camera supports different interface settings be sure to try them one by one or contact the reseller of your camera to find out the correct setting.

**USB Memory Device Issues**

- Devices connected to the USB port of your TV must be "Mass Storage Class" compliant. If your device (digital camera. MP3 player, portable harddisk, …) is not "Mass Storage Class" compliant it will not be detected by the content browser of the TV.
- The following subsets of the Mass Storage Class specification are supported:
  The implementation of the TV is based on the "Universal Serial Bus Mass Storage Class Specification Overview" (v1.2, June 23, 2003) including all documents referenced by the document. The document can be found on the USB standardisation website (www.usb.org).
  Full support of the USB Mass Storage Class Bulk-Only Transport (bInterfaceProtocol = 50h).
  Full support of SubClass Code = 05h; SFF-8070i spec.
  Full support of SubClass Code = 06h; SCSI transparent command set.
- For large USB memory devices, when you are in the Content Browser, it may take a long time before you can access your files.
- When using a USB portable harddisk: Due to the high power consumption of the harddisk, it is advised to use the external power supply of the portable harddisk to guarantee proper working under all conditions.

**Digital Content Issues**

- Only FAT (DOS) formatted (initialized) portable memory is supported. Errors in this formatting can result in unreadable content. If such problems appear try to re-format the card. Be aware that formatting the card will also delete all the content on it (pictures, music, …).
- The maximum size of any multimedia file should never exceed 4Gbyte.
- Do not use a dot "." in folder naming.
- If video streams are supporting multiple audio tracks the first audio track will automatically be selected, the other audio tracks can't be selected.
- External subtitle files (e.g. DivX.srt subtitle files) are not supported.

# 16 Issues referring to connected peripherals with a HDMI connector

**Note**

Teletext will not be available via equipment connected to a **HDMI** connector.

The **HDMI IN** connector allows the following TV and monitor display modes:

| | | |
|---|---|---|
| **HD** | Standard Definition TV (SDTV) | 640x480i |
| | | 720x480i |
| | | 720x576i |
| | Enhanced Definition TV (EDTV) | 640x480p |
| | | 720x480p |
| | | 720x576p |
| | High Definition TV (HDTV) | 1920x1080i |
| | | 1280x720p |

| | | |
|---|---|---|
| **PC** | VGA | 640x480 |
| | SVGA | 800x600 |
| | XGA | 1024x768 |

- If necessary, you can adjust the picture position to the centre of the screen with the ▲ or ▼, ◀ or ▶ keys.
- Due to legal requirements, it is possible that with certain copy protected PCM audio qualities from a peripheral equipment connected to the **HDMI** input, the Digital audio output signal is muted.
- Your TV supports HDCP (High-bandwidth Digital Content Protection). This is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (DVD, PC, etc.) and your TV. Content is encrypted at the source peripheral equipment to prevent unauthorised copies from being made.
- Proper working is only guaranteed with HDMI compliant consumer products. Limit the cable length to max. 5 m.
- Digital peripheral equipments from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.
- In case no signal is detected from your HDMI equipment, switch off the HDMI equipment and then on again.
  To get an optimal viewing, it is advised to switch your DVD player, Blu-Ray of HD settop box to the highest possible supported display modes.

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**Recycling**

The packaging of this product is intended to be recycled. Apply to the local authorities for correct disposal.

**Disposal of your old product**

Your product is designed and manufactured with highly quality material and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.

Please inform yourself about the local separate collection system for electrical and electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

**Disposal of batteries**

The batteries supplied do not contain the heavy metals mercury and cadmium. Please check on how to dispose of exhausted batteries according to local regulations.

**Product information**

- Your TV consumes energy in standby mode. Energy consumption contributes to air and water pollution. Very low standby power consumption.
- Specifications: see the product leaflet on www.philips.com/support.
- If you need further assistance, please call the customer support service in your country. The corresponding telephone numbers and addresses are given in the supplied Worldwide guarantee booklet.

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